



Espacenet

Result list

27 952 results found for "SAMSUNG SDI CO., LTD."

Results 1 to 500 displayed

Query language: en / de / fr

1. Flat panel display and method of manufacturing the same									
Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
Flat panel display and method of manufacturing the same	JUNG CHANG-YONG [kr] KANG TAE-WOOK [kr]	SAMSUNG SDI CO LTD [kr]	EP1753030A2	2005-08-11	H01L21/77	H01L27/124 (EP)	2007-02-14	2007-02-14	037387285
	JUNG CHANG-YONG SAMSUNG SDI CO LTD [kr]	SAMSUNG MOBILE DISPLAY CO LTD [kr]	EP1753030A3		H01L27/12	H01L27/1244 (EP)			
	KANG TAE-WOOK SAMSUNG SDI CO LTD [kr]	SAMSUNG MOBILE DISPLAY CO LTD [kr]	EP1753030B1		H01L27/32	H01L27/1248 (EP)			
					G02F1/1333	H01L2251/558 (EP) H01L27/3276 (EP)			
2. A CHARGE HOLDER FOR ENBLOC CLIP SHAPED LITHIUM SECONDARY BATTERY PACK									
Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
A CHARGE HOLDER FOR ENBLOC CLIP SHAPED LITHIUM SECONDARY BATTERY PACK	JEON JEONG BAE [kr]	ENBLOC CELL LLC [kr] JEON JEONG BAE [kr]	KR101446745B1	2014-04-30	H01M10/44 H01M10/46 H01M2/02 H01M2/10 H01M2/20	H01M10/44 (EP) H01M10/46 (EP) H01M2/10 (EP) H01M2/20 (EP)	2014-10-01	2014-10-01	051996382
3. AN ENBLOC CLIP SHAPED LITHIUM SECONDARY BATTERY PACK THAT IS COMPATIBLE WITH 2 OR 4 CELL BATTERY COMPARTMENT OF ELECTRONIC DEVICES									
Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
AN ENBLOC CLIP SHAPED LITHIUM SECONDARY BATTERY PACK THAT IS COMPATIBLE WITH 2 OR 4 CELL BATTERY COMPARTMENT OF ELECTRONIC DEVICES	JEON JEONG BAE [kr]	ENBLOC CELL LLC [kr] JEON JEONG BAE [kr]	KR101406240B1	2013-12-05	H01M10/46 H01M2/02 H01M2/10 H01M2/34	H01M10/052 (EP) H01M10/0525 (US) H01M10/0587 (EP,US) H01M10/425 (EP,US) H01M2/022 (EP,US) H01M2/0275 (EP) H01M2/105 (EP) H01M2/204 (EP) H01M2/263 (EP,US) H01M2/30 (EP,US) H01M2010/4271 (US) H01M2200/00 (EP) H01M2220/30 (EP,US)	2014-06-12	2014-06-12	051132526
4. SAMSUNG SDI CO., LTD.									
Title	Inventors	Applicants	Publication	Earliest	IPC	CPC	Publication	Earliest	Family

SAMSUNG SDI CO., LTD.	HWANG TAE SUB [kr]	ELECTRODE GROUP FOR SECONDARY	number KR100284343B1 KR20000051739A	priority 1999-01-26	H01M10/02 H01M10/02		date 2000-08-16 2001-03-02	publication 2000-08-16	number 019572364
5. Organic light emitting device and flat display including the same									
Title Organic light emitting device and flat display including the same	Inventors HEE-JOO LEE CHANG-HO YANG SEUN [kr] CHANG-HO LEE HEE-JOO KO HEE-YEON KIM JUNG-HAN SHIN SEUNG-GAK YANG	Applicants SAMSUNG SDI CO LTD [kr] SAMSUNG SDI CO LTD	Publication number CN101005119A CN101005119B	Earliest priority 2006-01-18	IPC H01L27/32 H01L51/50 H01L51/52 H01L51/54 H05B33/14	CPC H01L51/5036 (EP) H01L51/0052 (EP) H01L51/0059 (EP) H01L51/0085 (EP)	Publication date 2007-07-25 2010-11-03	Earliest publication 2007-01-16	Family number 037890470
6. SODIUM VANADIUM OXIDE ANODE MATERIAL FOR SODIUM ION SECONDARY BATTERY, PREPARATION METHOD THEREOF AND SODIUM ION SECONDARY BATTERY HAVING THE SAME									
Title SODIUM VANADIUM OXIDE ANODE MATERIAL FOR SODIUM ION SECONDARY BATTERY, PREPARATION METHOD THEREOF AND SODIUM ION SECONDARY BATTERY HAVING THE SAME	Inventors AHN JU HYEON [kr] CHO BYUNG WON [kr] CHOI WON CHANG [kr] KIM HYUNG SUN [kr] LEE YONG HO [kr] OH SI HYOUNG [kr]	Applicants KOREA INST SCI & TECH [kr]	Publication number US2014363739A1 US9166225B2	Earliest priority 2013-06-07	IPC C01D1/02 H01M4/485 C01G31/02 H01M10/054 H01M4/02	CPC C01D1/02 (US) H01M10/054 (KR) H01M4/40 (KR) H01M4/485 (EP,US) H01M4/52 (KR) C01G31/02 (US) H01M10/054 (EP,US) H01M2004/027 (EP,US) Y02E60/10 (US)	Publication date 2014-12-11 2015-10-20	Earliest publication 2014-12-11	Family number 052005730
7. ELECTRODE BINDER COMPOSITION FOR CONTROLLING THE DRYING RATE, THE ELECTRODE AND LITHIUM SECONDARY CELL COMPRISING THE SAME									
Title ELECTRODE BINDER COMPOSITION FOR CONTROLLING THE DRYING RATE, THE ELECTRODE AND LITHIUM SECONDARY CELL COMPRISING THE SAME	Inventors CHOI BYUNG HYUN [kr] JI MI JUNG [kr] JUNG SUNG HUN [kr] PARK GEUN YOUNG [kr] SEO SEUNG HYE [kr]	Applicants KOREA INST CERAMIC ENG & TECH [kr]	Publication number KR101635752B1 KR20150087864A	Earliest priority 2014-01-22	IPC H01M10/052 H01M4/13 H01M4/62	CPC H01M10/052 (KR) H01M4/13 (KR) H01M4/62 (KR) H01M4/621 (KR)	Publication date 2015-07-31 2016-07-05	Earliest publication 2015-07-31	Family number 053877039
8. COMPENSATION FILM AND ANTIREFLECTIVE FILM AND DISPLAY DEVICE									
Title COMPENSATION FILM AND ANTIREFLECTIVE FILM AND DISPLAY DEVICE	Inventors CHOI HYUNSEOK [kr] GAM SANGAH [kr] KIM JU HYUN [kr]	Applicants SAMSUNG ELECTRONICS CO LTD [kr]	Publication number EP3330789A1	Earliest priority 2016-11-30	IPC G02F1/13363	CPC G02B1/10 (CN) G02B1/11 (CN) G02B5/3016 (US) G02F1/133502 (US) G02F1/13363 (EP,US) G02F1/133632 (EP) G02F1/133634 (EP) H01L51/5284 (US) G02F2001/133633 (EP,US) G02F2001/133637 (EP) G02F2001/133638	Publication date 2018-06-06	Earliest publication 2018-05-31	Family number 060515110

						(EP,US) G02F2203/05 (US) G02F2413/02 (US) G02F2413/06 (US) G02F2413/08 (US) G02F2413/105 (EP)			
--	--	--	--	--	--	---	--	--	--

9. PHOTSENSITIVE RESIN COMPOSITION PHOTSENSITIVE RESIN USING THE SAME AND ELECTRONIC DEVICE

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
PHOTSENSITIVE RESIN COMPOSITION PHOTSENSITIVE RESIN USING THE SAME AND ELECTRONIC DEVICE	BAEK TAEK JIN [kr] KIM JI YOON [kr] LEE SEUNG EUN [kr] SHIN DONG JU [kr] SONG DOO RI [kr]	SAMSUNG SDI CO LTD [kr]	KR20190065866A	2017-12-04	G03F7/027 G03F7/028 G03F7/075		2019-06-12	2019-06-12	066846207

10. PHOTSENSITIVE RESIN LAYER, BLACK COLUMN SPACER USING THE SAME AND COLOR FILTER

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
PHOTSENSITIVE RESIN LAYER, BLACK COLUMN SPACER USING THE SAME AND COLOR FILTER	CHOI HYUN MOO [kr] LEE HYE MIN [kr] LEE JUN HO [kr] PAEK HO JEONG [kr] SONG HAE NI [kr] YU A RUM [kr]	SAMSUNG SDI CO LTD [kr]	KR20160068387A	2014-12-05	G02B5/20 G02F1/13 G03F7/027 G03F7/095	G02B5/20 (KR) G02F1/13 (KR) G03F7/027 (KR) G03F7/095 (KR) Y10S430/143 (KR)	2016-06-15	2016-06-15	056135097

11. METHOD OF FORMING PATTERNS AND SEMICONDUCTOR

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
METHOD OF FORMING PATTERNS AND SEMICONDUCTOR	BAE JIN HEE [kr] JANG JUN YOUNG [kr] KWAK TAEK SOO [kr] NOH KUN BAE [kr] SEO JIN WOO [kr] YUN HUI CHAN [kr]	SAMSUNG SDI CO LTD [kr]	KR102067082B1 KR20180085575A	2017-01-19	H01L21/02 H01L21/027 H01L21/324	H01L21/0332 (CN) H01L21/0337 (EP,CN,US) H01L21/3081 (US) H01L21/3086 (US) H01L21/31144 (US) H01L21/32139 (US) H01L21/02115 (EP) H01L21/02216 (EP) H01L21/02222 (EP) H01L21/02282 (EP)	2018-07-27 2020-01-16	2018-07-19	062841066

12. STRETCHABLE BATTERY AND METHOD OF MANUFACTURING THE SAME

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
STRETCHABLE BATTERY AND METHOD OF MANUFACTURING THE SAME	CUI YI [us] LIU WEI [us] SONG MINSANG [kr]	SAMSUNG ELECTRONICS CO LTD [kr] UNIV LELAND STANFORD JUNIOR [us]	US10629861B2 US2018342756A1	2017-05-23	H01M10/0525 H01M10/058 H01M2/18 H01M2/02 H01M2/16 H01M10/04 H01M2/14 H01M4/04 H01M10/0525 H01M4/02	H01M10/0436 (EP) H01M2/0207 (EP) H01M2/0267 (EP) H01M2/0275 (EP,US) H01M2/0287 (EP) H01M2/0292 (EP) H01M2/145 (EP) H01M2/162 (EP,US)	2018-11-29 2020-04-21	2018-11-29	064400289

						H01M2/168 (EP) H01M2/1686 (EP,US) H01M4/0435 (EP) H01M10/0525 (EP,US) H01M2002/0297 (EP) H01M2004/025 (EP)			
--	--	--	--	--	--	---	--	--	--

13. Polarizing plate and liquid crystal display including the same

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
Polarizing plate and liquid crystal display including the same	PARK EUN-SU [kr] SHIN DONG-YOON [kr] SHIN KWANG-HO [kr] PARK EUN SU [kr] SHIN DONG YOON [kr] SHIN KWANG HO [kr]	SAMSUNG SDI CO LTD [kr]	TW201619646A TWI621884B	2014-11-26	G02B1/10 G02B5/00 G02B5/30	G02B1/14 (EP) G02B1/18 (US) G02B5/30 (KR) G02B5/3008 (KR) G02B5/305 (CN) G02B5/3083 (EP,US) G02F1/1335 (KR) G02F1/133528 (EP,CN,US) G02F1/13363 (EP,US)	2016-06-01 2018-04-21	2016-05-26	056010009

14. FRONT SIDE FILTER FOR A PLASMA DISPLAY PANEL HAVING AN IMPROVED TRANSMITTANCE

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
FRONT SIDE FILTER FOR A PLASMA DISPLAY PANEL HAVING AN IMPROVED TRANSMITTANCE	CHO SEONG NIM PARK DONG HYEON SHIN DONG GEUN	SAMSUNG CORNING CO LTD	KR100578633B1 KR20040051141A	2002-12-12	H01J17/49 H01J11/44		2004-06-18 2006-05-11	2004-06-18	037345138

15. Operating method of risk asset warning system

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
Operating method of risk asset warning system	LEE JAEYEON SANGHYUN PARK	HANWHA SYSTEMS CO LTD [kr]	KR101938563B1	2018-06-29	G06F21/57 H04L29/06	G06F21/577 (KR) H04L63/1433 (KR)	2019-01-15	2019-01-15	065030334

16. Ceramic slurry for lithium battery separator and preparation method and application method of ceramic slurry

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
Ceramic slurry for lithium battery separator and preparation method and application method of ceramic slurry	BAI BAOSHENG LIU QIANG XU ZHIHAO	UNIV TIANJIN TECHNOLOGY	CN106531941A	2017-01-10	H01M2/16	H01M2/16 (CN)	2017-03-22	2017-03-22	058336804

17. Thermoplastic Resin Composition

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
Thermoplastic Resin Composition	HONG CHANG MIN [kr] KWON KEEHAE [kr] PARK JUNG EUN [kr]	SAMSUNG SDI CO LTD [kr] LOTTE ADVANCED MAT CO LTD [kr]	US2016046805A1 US9758669B2	2014-08-18	C08L69/00	C08K3/013 (EP,US) C08L25/12 (EP,US) C08L51/04 (EP,US) C08L67/02 (EP,US) C08L69/00 (EP,US) C08L2205/035 (US) C08L2207/04 (US) C08L2207/53 (US)	2016-02-18 2017-09-12	2016-02-18	055235129

						(US) C08L69/00, C08K3/013, C08L25/12, C08L51/04, C08L67/02, INV (EP,US)			
--	--	--	--	--	--	--	--	--	--

18. THERMOPLASTIC RESIN COMPOSITION AND MOLDED ARTICLE USING THEREOF

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
THERMOPLASTIC RESIN COMPOSITION AND MOLDED ARTICLE USING THEREOF	HONG CHANG MIN [kr] KIM IN CHOL [kr] KWON KEE HAE [kr] PARK JUNG WOO [kr]	SAMSUNG SDI CO LTD [kr]	KR101903839B1 KR20160081860A	2014-12-31	C08J5/00 C08L25/12 C08L55/02 C08L69/00		2016-07-08 2018-10-02	2016-07-08	056503997

19. Plasma display panel provided with an improved bus electrodes

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
Plasma display panel provided with an improved bus electrodes	HEE MOON CHEOL [kr] HEON OH SEUNG [kr] HWA SONG YOUNG [kr] SEOK RHO CHANG [kr]	SAMSUNG SDI CO LTD [kr]	CN100573790C CN101093768A	2003-11-26	G09G3/10 H01J17/04 H01J17/49	H01J11/12 (EP) H01J11/24 (EP) H01J2211/245 (EP) H01J2211/444 (EP)	2007-12-26 2009-12-23	2005-05-26	034588076

20. Silicon-based cathode high-voltage lithium ion battery

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
Silicon-based cathode high-voltage lithium ion battery	HAN HONGBEI WAN HUAPING YANG YONGJUN ZENG QINGPENG ZHAN XIAOYUN ZHANG BIN	DONGUAN KAIXIN BATTERY MAT CO LTD	CN106099174A	2016-08-26	H01M10/0525 H01M10/0567	H01M10/0525 (CN) H01M10/0567 (CN) H01M2300/0025 (CN)	2016-11-09	2016-11-09	057226364

21. Silicon-carbon composite anode high-voltage lithium-ion battery

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
Silicon-carbon composite anode high-voltage lithium-ion battery	YANG YONGJUN ZHAN XIAOYUN	DONGUAN KAIXIN BATTERY MAT CO LTD	CN106299462A	2016-10-08	H01M10/0525 H01M10/0567	H01M10/0525 (CN) H01M10/0567 (CN)	2017-01-04	2017-01-04	057717276

22. HIGH POWER ANODE MATERIAL FOR LITHIUM SECONDARY BATTERY AND PREPARATION METHOD THEREOF

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
HIGH POWER ANODE MATERIAL FOR LITHIUM SECONDARY BATTERY AND PREPARATION METHOD THEREOF	CHO BYUNG WON [kr] JUNG JI KWON [kr] KIM HYUNG SUN [kr] LEE HYUNG DONG [kr] PARK SUNG HUN [kr] YOON JAE DON [kr]	MORGAN CO LTD [kr]	KR101236436B1 KR20120033811A	2010-09-30	H01B1/04 H01M10/0525 H01M4/48 H01M4/62	C01G41/00 (KR) H01M10/0525 (KR) H01M4/1391 (KR) H01M4/485 (KR) H01M4/587 (KR) H01M4/625 (KR) C01P2004/61 (KR) C01P2004/62 (KR) C01P2006/40 (KR) H01M4/131 (KR) H01M4/133 (KR) Y02E60/10 (KR) Y02P70/50 (EP)	2012-04-09 2013-02-21	2012-04-09	046136500

23. A METHOD FOR PREPARING THIN FILM TRANSISTOR HAVING POLYCRYSTALLINE SI LAYER, A THIN FILM TRANSISTOR PREPARED BY THE METHOD AND A FLAT PANNEL DISPLAY COMPRISING THE THIN FILM TRANSISTOR

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
A METHOD FOR PREPARING THIN FILM TRANSISTOR HAVING POLYCRYSTALLINE SILICON LAYER, A THIN FILM TRANSISTOR PREPARED BY THE METHOD AND A FLAT PANNEL DISPLAY COMPRISING THE THIN FILM TRANSISTOR	JEONG JAE KYEONG [kr] KOO JAE BON [kr] MO YEON GON [kr] SHIN HYUN SOO [kr]	SAMSUNG SDI CO LTD [kr]	KR100696507B1 KR20060108944A	2005-04-13	H01L29/786	F21S8/065 (KR) F21V17/002 (KR)	2006-10-18 2007-03-19	2006-10-18	037628480

24. THERMOPLASTIC RESIN COMPOSITION AND MOLDED ARTICLE COMPRISING THE SAME

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
THERMOPLASTIC RESIN COMPOSITION AND MOLDED ARTICLE COMPRISING THE SAME	HONG CHANG MIN [kr] KWON KEE HAE [kr] PARK JEONG EUN [kr]	LOTTE ADVANCED MAT CO LTD [kr]	EP3135728A1 EP3135728B1	2015-08-28	C08L69/00	C08K3/34 (EP,US) C08L33/20 (EP,US) C08L67/02 (EP,US) C08L69/00 (EP,US) C08L69/00, C08K3/34, C08L33/20, C08L67/02, INV (EP,US)	2017-03-01 2018-03-07	2017-03-01	056888933

25. ORGANIC ELECTROLUMINESCENT ELEMENT

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
ORGANIC ELECTROLUMINESCENT ELEMENT	CHO YOON- HYUNG CHOI JIN- BAEK KIM WON- JONG KIM YONG- TAK LEE BYOUNG-DUK LEE JONG-HYUK LEE SHOKO LEE SHOREI LEE SUN-YOUNG OH MIN-HO	SAMSUNG SDI CO LTD	JP2009016332A	2007-07-03	H01L51/50 H05B33/28	H01L51/5234 (EP) Y10S428/917 (EP)	2009-01-22	2008-06-16	039771371

26. Compound, photosensitive resin composition including the same, and color filter

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
Compound, photosensitive resin composition including the same, and color filter	CHOI EUNJEONG HAN GYUSEOK JUNG JUHO KIM KYUYOUNG KIM SOHYUN LEE YOUNG SEO KWANGWON SHIN MYOUNGYOUP	SAMSUNG SDI CO LTD	CN107805237A	2016-09-09	C07D311/82 C09B57/00 G02F1/1335 G03F7/004 G03F7/033	C07D311/82 (EP,CN) C07D413/12 (US) C09B57/00 (CN) G02F1/133514 (CN) G03F7/004 (CN) G03F7/033 (CN) G02B5/223 (EP,US)	2018-03-16	2018-03-15	061559477

27. Current Breaking Method for Rechargeable Battery and Battery Pack Using the Same

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
Current Breaking Method for Rechargeable Battery and Battery Pack Using the Same	LIM SUNGBIN [kr]	SAMSUNG SDI CO LTD [kr]	PL2128958T3	2008-04-25	H02H3/087 H02J7/00 H02H3/093	H02H3/087 (EP,US) H02J7/00309 (EP) H02J7/0031 (EP,KR,US) H02H3/0935 (EP,US)	2020-07-13	2009-10-28	041210707

						H02J7/00304 (EP,KR,US)			
28. Conductive thermoplastic resin composition									
Title Conductive thermoplastic resin composition	Inventors HONG SANG HYUN JUNG EUN HYE LEE MIN SOO SHIN CHAN GYUN	Applicants SAMSUNG SDI CO LTD	Publication number CN106661319A	Earliest priority 2014-08-29	IPC C08J5/00 C08K3/04 C08K7/14 C08L69/00	CPC C08K3/041 (US) C08K7/06 (EP,US) C08K9/02 (EP) H01B1/04 (EP,US) B82Y30/00 (EP,US) C08K2201/001 (EP,US) C08K2201/003 (EP) C08K2201/004 (EP) C08K2201/011 (EP,US) C08K7/14 (EP,US) Y10S977/742 (EP,US) Y10S977/753 (EP,US) Y10S977/932 (EP,US) C08K7/06, C08L69/00, INV (EP) C08K9/02, C08L69/00, INV (EP)	Publication date 2017-05-10	Earliest publication 2016-03-09	Family number 055537000
29. NEGATIVE ACTIVE MATERIAL AND RECAHRGEABLE LITHIUM BATTERY INCLUDING THE SAME									
Title NEGATIVE ACTIVE MATERIAL AND RECAHRGEABLE LITHIUM BATTERY INCLUDING THE SAME	Inventors KIM YONGSEOK NAH JAEHO SHIN CHANGSU	Applicants SAMSUNG SDI CO LTD	Publication number CN110350156A	Earliest priority 2018-04-05	IPC B82Y30/00 B82Y40/00 H01M10/0525 H01M4/36 H01M4/38 H01M4/62	CPC B82Y30/00 (CN) B82Y40/00 (CN) H01M10/0525 (EP,CN,US) H01M4/364 (EP,US) H01M4/366 (CN,US) H01M4/386 (EP,CN,US) H01M4/587 (EP,US) H01M4/628 (CN) H01M2004/021 (EP) H01M2004/027 (CN,US)	Publication date 2019-10-18	Earliest publication 2019-10-10	Family number 068096145
30. CATHODE ACTIVE MATERIAL, METHOD OF PRODUCING THE SAME, AND CATHODE AND LITHIUM SECONDARY BATTERY EMPLOYING THE SAME									
Title CATHODE ACTIVE MATERIAL, METHOD OF PRODUCING THE SAME, AND CATHODE AND LITHIUM SECONDARY BATTERY EMPLOYING THE SAME	Inventors CHOI HONG-KYU CHOI ICK-KYU KIM YONG-GI PARK NA-RI PARK YOUNG-CHUL YI SUN-RYUL YI YEONG-HUN	Applicants SAMSUNG SDI CO LTD	Publication number JP2015018803A JP6508806B2	Earliest priority 2013-07-08	IPC C01G53/00 H01M4/36 H01M4/505 H01M4/525	CPC C01D15/02 (EP,US) H01M10/0525 (EP,CN,US) H01M4/131 (EP,US) H01M4/134 (CN) H01M4/1391	Publication date 2015-01-29 2019-05-08	Earliest publication 2015-01-08	Family number 050097623

						(EP,US) H01M4/1395 (CN) H01M4/485 (EP,US) H01M4/505 (EP,US) H01M4/523 (US) H01M4/525 (EP,CN,US)			
--	--	--	--	--	--	---	--	--	--

31. Battery module

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
Battery module	GUN-GOO LEE TAE-YONG KIM YOON-CHEOL JEON	SAMSUNG SDI CO LTD [kr] SAMSUNG SDI CO LTD	CN101330135A CN101330135B	2004-10-28	H01M2/02 H01M2/10	H01M2/1016 (KR) H01M2/1072 (KR) H01M2220/20 (KR) Y02E60/10 (KR)	2008-12-24 2010-12-29	2006-05-03	036773452

32. PHOTOELECTRIC DEVICE MODULE AND MANUFACTURING METHOD THEREOF

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
PHOTOELECTRIC DEVICE MODULE AND MANUFACTURING METHOD THEREOF	AHN YOUNG-KYOUNG [kr] CHO HYUN-YOUNG [kr] HUH PIL-HO [kr] KANG YEON-IL [kr] KIM MIN-GU [kr] LEE JUN-YOUNG [kr] PARK MIN [kr] YANG JUNG-YUP [kr]	SAMSUNG SDI CO LTD [kr]	IN2463MU2013A	2012-09-11	H01L31/05	H01L31/0201 (EP,CN,US) H01L31/0512 (EP,CN) Y02E10/50 (EP)	2015-07-31	2014-03-12	048082926

33. Plasma display panel provided with an improved electrode

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
Plasma display panel provided with an improved electrode	CHANG-SEOK MOON CHEOL-HEE RHO [kr] MOON CHEOL-HEE RHO CHANG-SEOK	SAMSUNG SDI CO LTD [kr] SAMSUNG SDI CO LTD	CN1979727A CN1979727B	2003-10-31	H01J17/04 H01J17/49 H01J11/12 H01J11/48	H01J11/12 (EP) H01J11/48 (EP)	2007-06-13 2013-01-02	2005-05-04	034545668

34. METHOD FOR PREPARING ELECTRON EMISSION DEVICE AND ELECTRON EMISSION DEVICE

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
METHOD FOR PREPARING ELECTRON EMISSION DEVICE AND ELECTRON EMISSION DEVICE	KIM JAE MYUNG [kr] MOON HEE SUNG [kr]	SAMSUNG SDI CO LTD [kr]	KR20070005148A	2005-07-05	H01J1/30	H01J29/862 (KR) H01J9/261 (KR) H01J2329/8675 (KR)	2007-01-10	2007-01-10	037870833

35. Negative electrode active material for rechargeable lithium cell and its preparing method

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
Negative electrode active material for rechargeable lithium cell and its preparing method	GYU-UN SHIM [kr] JUN-SOP KIM [kr] SANG-CHIN KIM [kr]	SAMSUNG SDI CO LTD [kr]	CN100355128C CN1516305A	2002-12-26	C01B31/02 H01M4/04 H01M4/58 B05D5/12 C01B31/02 H01M4/36 H01M4/583 H01M4/587	H01M4/133 (EP) H01M4/1393 (EP) H01M4/583 (EP) H01M10/0525 (EP) H01M2004/021 (EP)	2004-07-28 2007-12-12	2004-07-02	032709716

36. POLYCARBONATE RESIN COMPOSITION AND MOLDED ARTICLE USING THEREOF

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
POLYCARBONATE RESIN COMPOSITION AND	HONG SANG HYUN [kr] JANG	SAMSUNG SDI CO LTD [kr]	KR20160073449A	2014-12-16	C08J5/00 C08K3/22	C08J5/00 (KR) C08K3/22 (EP,KR)	2016-06-27	2016-06-16	056110528

MOLDED ARTICLE USING THEREOF	MI RAE [kr] JUNG YOO JIN [kr] KIM JUNG KI [kr] PARK NA RI [kr] WOO EUN TAEK [kr]				C08L51/04 C08L69/00	C08L25/12 (EP) C08L51/04 (EP,KR) C08L55/02 (EP) C08L69/00 (EP,CN,KR,US) C08J5/00 (EP,US) C08L2201/08 (CN) C08L2205/03 (EP,CN,US) C08L2207/53 (EP,US) C08L69/00, C08K3/22, C08L25/12, C08L55/02, INV (EP,US) C08L69/00, C08K3/22, C08L51/04, INV (EP,US) C08L69/00, C08K3/22, C08L55/02, INV (EP,US) C08L69/00, C08L55/02, C08L25/12, C08K2003/2248, INV (CN)			
------------------------------	--	--	--	--	------------------------	---	--	--	--

37. NEGATIVE HOLE STRUCTURE HAVING PROTRUDED PORTION, METHOD FOR FORMING THE SAME AND FED CATHODE PART COMPRISING THE SAME

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
NEGATIVE HOLE STRUCTURE HAVING PROTRUDED PORTION, METHOD FOR FORMING THE SAME AND FED CATHODE PART COMPRISING THE SAME	LEE SANG JIN [kr]	SAMSUNG SDI CO LTD [kr]	KR20050096541A	2004-03-31	H01J1/30 H01J1/30 H01J1/304 H01J1/62 H01J29/48 H01J3/02 H01J9/02	H01J29/481 (EP) H01J3/021 (EP,KR) H01J9/02 (EP) H01J9/148 (KR) H01J2201/30469 (KR) H01J2203/0216 (KR) H01J2203/028 (KR) H01J2203/0288 (KR)	2005-10-06	2005-10-06	035135735

38. NEGATIVE ACTIVE MATERIAL AND RECHARGEABLE LITHIUM BATTERY INCLUDING NEGATIVE ACTIVE MATERIAL

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
NEGATIVE ACTIVE MATERIAL AND RECHARGEABLE LITHIUM BATTERY INCLUDING NEGATIVE ACTIVE MATERIAL	KIM JOON-SUP [kr] KIM SUNG-SOO [kr] SUNG MIN-SEOK [kr] KIM JOON-SUPSAMSUNG SDI CO LTD [kr] KIM SUNG-SOOSAMSUNG SDI CO LTD [kr] SUNG MIN-SEOK SAMSUNG SDI CO LTD [kr]	SAMSUNG SDI CO LTD [kr]	EP1791200A2 EP1791200A3 EP1791200B1	2005-11-29	H01M10/05 H01M10/052 H01M10/0566 H01M4/02 H01M4/134 H01M4/36 H01M4/38 H01M4/46 H01M4/56 C22C28/00 C22C9/10 H01M4/48 H01M10/052	C22C28/00 (EP,US) C22C9/10 (EP,US) H01M4/134 (EP,US) H01M4/362 (EP,US) H01M4/386 (EP,US) H01M4/387 (EP,US) H01M4/46 (EP,US)	2007-05-30 2009-03-11 2019-08-21	2007-05-30	037866317

					H01M10/0587 H01M4/02 H01M4/505 H01M4/525	H01M10/052 (EP,US) H01M10/0587 (EP,US) H01M2004/021 (EP,US) H01M4/02 (EP,US) H01M4/463 (EP,US) H01M4/505 (EP,US) H01M4/525 (EP,US) Y02E60/10 (US)			
--	--	--	--	--	---	---	--	--	--

39. Benzcarbazole compound and organic electroluminescent equipment thereof

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
Benzcarbazole compound and organic electroluminescent equipment thereof	CHAN-GHO HWANG CHOL- WAN LEE SE [kr] CHAN-GHO LEE CHOE-KONG KIM CHOL-WAN HWANG HEE- YON KIM SEOG- CHONG LEE SEONG-GAK RYANG	SAMSUNG SDI CO LTD [kr] SAMSUNG SDI CO LTD	CN1763006A CN1763006B	2004-07-14	C07D209/86 H05B33/14	C07D209/88 (EP) C07D403/12 (EP) C09K11/06 (EP) H01L51/006 (EP) H01L51/0061 (EP) H05B33/14 (EP) C09K2211/1029 (EP) H01L51/0072 (EP) H01L51/5012 (EP) H01L51/5048 (EP) Y10S428/917 (EP)	2006-04-26 2010-09-08	2006-01-18	036747355

40. PHOTOSENSITIVE RESIN COMPOSITION AND PHOTOSENSITIVE RESIN LAYER USING THE SAME AND COLOR FILTER

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
PHOTOSENSITIVE RESIN COMPOSITION AND PHOTOSENSITIVE RESIN LAYER USING THE SAME AND COLOR FILTER	CHOI SE YOUNG [kr] LEE IN JAE [kr]	SAMSUNG SDI CO LTD [kr]	KR102067083B1 KR20180059183A	2016-11-25	G02B5/22 G03F7/00 G03F7/027 G03F7/028 G03F7/032 G03F7/105 G03F7/16	G02B5/223 (CN) G03F7/004 (CN) G03F7/027 (CN)	2018-06-04 2020-01-16	2018-06-01	062206308

41. White electroluminescent polymer and organic electroluminescent device using the same

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
White electroluminescent polymer and organic electroluminescent device using the same	KANG IN NAM [kr] LEE JI HOON [kr]	SAMSUNG SDI CO LTD [us] SAMSUNG SDI CO LTD [kr]	US2003008175A1 US6942931B2	2001-06-13	C08G61/12 C09K11/06 H05B33/14 C08G61/02 C08G61/12 C09K11/06 H01L51/00 H01L51/50	C08G61/02 (EP) C08G61/12 (EP) C09K11/06 (EP) H01L51/0035 (EP) H01L51/0043 (EP) C09K2211/1416 (EP) C09K2211/1466 (EP) H01L51/5036 (EP) H01L51/5088 (EP) H01L51/5092 (EP) Y02E10/549 (EP) Y10S428/917 (EP)	2003-01-09 2005-09-13	2002-12-18	019710760

42. DISPLAY DEVICE WINDOW FILM AND FLEXIBLE DISPLAY DEVICE INCLUDING SAME

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
DISPLAY DEVICE WINDOW FILM AND	CHOI JIN HEE [kr] KIM JOO HUI [kr] KIM SUNG HAN	SAMSUNG SDI CO LTD [kr]	WO2018004094A1	2016-06-27	C09D175/04 C09D175/14 C09D183/04	C09D175/04 (EP) C09D175/14 (EP) C09D183/04 (EP)	2018-01-04	2018-01-04	060785473

FLEXIBLE DISPLAY DEVICE INCLUDING SAME	[kr] LEE EUN SU [kr] LEE JUNG HYO [kr] PARK SI KYUN [kr]				G02B1/14 G02B5/30	G02B1/14 (EP) G02B5/30 (EP)			
43. WINDOW FILM FOR DISPLAY APPARATUS AND FLEXIBLE DISPLAY APPARATUS COMPRISING THE SAME									
Title WINDOW FILM FOR DISPLAY APPARATUS AND FLEXIBLE DISPLAY APPARATUS COMPRISING THE SAME	Inventors CHOI JIN HEE [kr] KIM JOO HUI [kr] KIM SUNG HAN [kr] LEE EUN SU [kr] LEE JUNG HYO [kr] PARK SI KYUN [kr]	Applicants SAMSUNG SDI CO LTD [kr]	Publication number KR102018362B1 KR20180001423A	Earliest priority 2016-06-27	IPC C09D175/04 C09D175/14 C09D183/04 G02B1/14 G02B5/30 C09D7/40	CPC C09D175/04 (KR) C09D175/14 (KR) C09D183/04 (KR) C09D7/63 (KR) G02B1/14 (KR) G02B5/30 (KR)	Publication date 2018-01-04 2019-09-04	Earliest publication 2018-01-04	Family number 060998216
44. PHOTOSENSITIVE RESIN COMPOSITION AND COLOR FILTER USING THE SAME									
Title PHOTOSENSITIVE RESIN COMPOSITION AND COLOR FILTER USING THE SAME	Inventors JUNG JU HO [kr] KWON JAE YOUNG [kr] LEE CHANG RYUL [kr] LEE JUNG SUN [kr] LEE YEON SOO [kr]	Applicants SAMSUNG SDI CO LTD [kr]	Publication number KR101767081B1 KR20160022080A	Earliest priority 2014-08-19	IPC C09B47/04 G02B5/20 G03F7/032	CPC C09B67/0041 (KR) G02B1/04 (KR) G02B5/201 (KR) G02B5/223 (KR) G02B5/23 (KR) G03F7/0007 (KR) G03F7/031 (KR) G03F7/033 (KR)	Publication date 2016-02-29 2017-08-10	Earliest publication 2016-02-29	Family number 055448331
45. PHOTOSENSITIVE RESIN COMPOSITION PHOTOSENSITIVE RESIN LAYER USING THE SAME AND COLOR FILTER									
Title PHOTOSENSITIVE RESIN COMPOSITION PHOTOSENSITIVE RESIN LAYER USING THE SAME AND COLOR FILTER	Inventors GWAK SEONYEONG JEONG EUISOO KIM JIEUN LEE YOUNG SONG HAENI YU ARUM	Applicants SAMSUNG SDI CO LTD [kr]	Publication number KR20200023949A	Earliest priority 2018-08-27	IPC C08F2/50 C08K5/00 C08K5/372 C08L101/06 G02F1/1335	CPC	Publication date 2020-03-06	Earliest publication 2020-03-06	Family number 069802273
46. PHOTOSENSITIVE RESIN COMPOSITION PHOTOSENSITIVE RESIN USING THE SAME AND COLOR FILTER									
Title PHOTOSENSITIVE RESIN COMPOSITION PHOTOSENSITIVE RESIN USING THE SAME AND COLOR FILTER	Inventors HAN GYU SEOK [kr] HEO SOO YOUNG [kr] JUNG JU HO [kr] KIM JI EUN [kr] LEE YOUNG [kr]	Applicants SAMSUNG SDI CO LTD [kr]	Publication number KR102134267B1 KR20180136787A	Earliest priority 2017-06-15	IPC C09B57/00 G02B5/20 G03F7/00 G03F7/004 G03F7/027 G03F7/033 G03F7/105	CPC	Publication date 2018-12-26 2020-07-15	Earliest publication 2018-12-26	Family number 065006613
47. POSITIVE ACTIVE MATERIAL FOR RECHARGEABLE LITHIUM BATTERY, METHOD OF PREPARING THE SAME, AND RECHARGEABLE LITHIUM BATTERY INCLUDING THE SAME									
Title POSITIVE ACTIVE MATERIAL FOR RECHARGEABLE LITHIUM BATTERY, METHOD OF PREPARING THE SAME, AND RECHARGEABLE LITHIUM BATTERY INCLUDING THE SAME	Inventors KIM SU-JIN	Applicants SAMSUNG SDI CO LTD	Publication number JP2016039136A JP6669345B2	Earliest priority 2014-08-11	IPC H01M4/36 H01M4/525 H01M4/505	CPC C01B25/45 (EP,US) H01M10/052 (EP,US) H01M10/0525 (CN) H01M4/13 (EP,US) H01M4/131 (EP,US) H01M4/139 (EP,US) H01M4/1391 (EP,US) H01M4/366	Publication date 2016-03-22 2020-03-18	Earliest publication 2016-02-11	Family number 053284121

						(EP,CN,US) H01M4/485 (EP,CN,US) H01M4/505 (CN) H01M4/525 (EP,CN,US) H01M4/5825 (EP,CN,US) C01P2006/40 (US) H01M2220/30 (US)			
--	--	--	--	--	--	--	--	--	--

48. SECONDARY BATTERY, AND METHOD OF MANUFACTURING THE SAME

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
SECONDARY BATTERY, AND METHOD OF MANUFACTURING THE SAME	CHO GIBONG CHOI KYUNGTAEK HONG JINUK HWANG SOONHAK KIM DONGWOO KIM KYUHO LEE SEUNG-HWAN MAENG SANGJIN MIN JUNGKI PARK WON-SIK	SAMSUNG SDI CO LTD	JP2016033912A JP6695654B2	2014-07-30	H01M2/26 H01M4/66 H01M10/04	B23K26/0622 (EP,US) B23K26/082 (EP,US) B23K26/244 (EP,US) B23K26/32 (EP,US) B23K26/38 (EP,US) B23K26/40 (EP,US) H01M10/04 (CN) H01M2/021 (EP,US) H01M2/30 (US) H01M2/34 (EP,US) H01M4/0404 (EP,US) H01M4/48 (EP,US) H01M4/661 (EP,US) H01M4/664 (EP,US) H01M4/667 (EP,US) H01M4/70 (EP,US) B23K2101/36 (EP,US) B23K2103/10 (EP,US) B23K2103/12 (EP,US)	2016-03-10 2020-05-20	2016-02-04	055180932

49. ADHESIVE COMPOSITION, OPTICAL MEMBER AND ADHESIVE SHEET

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
ADHESIVE COMPOSITION, OPTICAL MEMBER AND ADHESIVE SHEET	OGAWA HIROSHI SUWA TATSUHIRO	SAMSUNG SDI CO LTD	JP2016035046A JP6688019B2	2014-08-01	C09J7/02 C08F2/44 C08F220/18 C08F220/28 C08F265/06 C09J11/06 C09J133/00 C09J133/02 C09J133/04		2016-03-17 2020-04-28	2016-02-15	055357261

					C09J133/14 C09J4/00 C09J7/00 G02B5/30 G02F1/1335 C09J7/20				
50. CONTROL DEVICE AND CONTROL METHOD FOR HYBRID VEHICLE									
Title CONTROL DEVICE AND CONTROL METHOD FOR HYBRID VEHICLE	Inventors FURUSAWA KENJI ISHIKAWA MASAMI MURAOKA MITSUTOSHI MURAYAMA YOSHIYA YAMANE HIROSHI YOSHIDA TARO	Applicants SAMSUNG SDI CO LTD	Publication number JP2015051676A JP6285670B2	Earliest priority 2013-09-06	IPC B60K6/485 B60L15/20 B60W10/08 B60W20/00	CPC Y02T10/62 (EP) Y02T10/70 (EP) Y02T10/72 (EP)	Publication date 2015-03-19 2018-02-28	Earliest publication 2015-03-16	Family number 052701055
51. BATTERY MODULE									
Title BATTERY MODULE	Inventors CHO JUN WOO KIM YOUNG DEOK PARK SHI-DONG	Applicants SAMSUNG SDI CO LTD	Publication number JP2014212112A JP6452306B2	Earliest priority 2013-04-17	IPC H01M2/10	CPC H01M2/1022 (CN) H01M2/1077 (EP,CN,US) H01M2/02 (US) H01M2/04 (US) H01M2200/00 (EP,US) H01M2220/20 (EP,US)	Publication date 2014-11-13 2019-01-16	Earliest publication 2014-10-22	Family number 050336222
52. Compound, Photosensitive Resin Composition containing the same and color filter									
Title Compound, Photosensitive Resin Composition containing the same and color filter	Inventors CHO NAMSICK FENG XINHUI JUNG JUHO KIM KYUYOUNG LEE JUNGHWA LEE YOUNG SEO KWANGWON SHIN MYOUNGYOUP SHIN SUNWOONG	Applicants SAMSUNG SDI CO LTD	Publication number CN107540697A	Earliest priority 2016-06-24	IPC C07F3/06 G02B1/04 G03F7/004 G03F7/027 G03F7/032	CPC	Publication date 2018-01-05	Earliest publication 2018-01-01	Family number 060970157
53. POSITIVE ELECTRODE ACTIVE MATERIAL FOR LITHIUM SECONDARY BATTERY, METHOD OF PREPARING THE SAME, AND LITHIUM SECONDARY BATTERY INCLUDING THE POSITIVE ELECTRODE ACTIVE MATERIAL									
Title POSITIVE ELECTRODE ACTIVE MATERIAL FOR LITHIUM SECONDARY BATTERY, METHOD OF PREPARING THE SAME, AND LITHIUM SECONDARY BATTERY INCLUDING THE POSITIVE ELECTRODE ACTIVE MATERIAL	Inventors KIM CHANG-HYOK KIM JI-HYON KIM MIN-HAN KIM YUN-CHANG KWON SEON-YEONG PARK DO-HYONG YI JEONG-SEOP	Applicants SAMSUNG SDI CO LTD	Publication number JP2013120752A JP6265520B2	Earliest priority 2011-12-07	IPC C01G53/00 H01M4/36 H01M4/505 H01M4/525	CPC C01G53/006 (EP,KR,US) C01G53/50 (EP,KR,US) H01M10/0525 (EP,KR,US) H01M4/0497 (EP,KR,US) H01M4/1391 (KR) H01M4/366 (EP,KR,US) H01M4/505 (EP,KR,US) H01M4/525 (EP,KR,US)	Publication date 2013-06-17 2018-01-24	Earliest publication 2013-06-12	Family number 047294785

						C01P2002/88 (EP,US) C01P2004/03 (EP,US) C01P2004/61 (EP,US) C01P2004/84 (EP,US) C01P2006/40 (EP,US) H01M2004/021 (EP,KR,US)			
--	--	--	--	--	--	--	--	--	--

54. CATHODE ACTIVE MATERIAL FOR LITHIUM SECONDARY BATTERY, METHOD FOR MANUFACTURING THE SAME AND LITHIUM SECONDARY BATTERY HAVING POSITIVE ELECTRODE INCLUDING CATHODE ACTIVE MATERIAL

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
CATHODE ACTIVE MATERIAL FOR LITHIUM SECONDARY BATTERY, METHOD FOR MANUFACTURING THE SAME AND LITHIUM SECONDARY BATTERY HAVING POSITIVE ELECTRODE INCLUDING CATHODE ACTIVE MATERIAL	CHANG DONGGYU KIM JONG-MIN	SAMSUNG SDI CO LTD	JP2019200991A	2018-05-15	H01M4/36 H01M4/505 H01M4/525	C01G53/006 (EP) C01G53/50 (EP) H01M10/052 (CN) H01M10/0525 (US) H01M10/058 (CN) H01M4/366 (CN,US) H01M4/485 (CN) H01M4/505 (CN,US) H01M4/525 (CN,US) H01M4/62 (CN) H01M4/628 (US) C01P2004/03 (EP) C01P2004/51 (EP) C01P2004/61 (EP) C01P2006/16 (EP) H01M2004/021 (US) H01M2004/028 (US)	2019-11-21	2019-11-21	066542052

55. THERMOPLASTIC RESIN COMPOSITION

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
THERMOPLASTIC RESIN COMPOSITION	HONG SANG HYEN JUNG YOO JIN KANG TAE GON LEE SANG- HWA LIM JONG- CHEOL PARK CHAN MOO	SAMSUNG SDI CO LTD	JP2015105379A JP6495632B2	2013-11-29	C08K13/04 C08L67/00 C08K3/22 C08K3/26 C08K3/30 C08K3/32 C08K3/34 C08L67/02 F21V7/00	C08K3/22 (EP,US) C08K3/32 (EP,US) F21V7/26 (EP,US) C08K2003/2241 (EP,US) C08K2003/324 (EP,US) F21Y2115/10 (EP,US) H01L33/60 (EP,US) C08K3/22, C08L67/02, INV (EP,US) C08K3/32, C08L67/02, INV (EP,US)	2015-06-08 2019-04-03	2015-06-03	053058663

56. POLARIZING PLATE AND LIQUID CRYSTAL DISPLAY DEVICE HAVING THE SAME

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
POLARIZING PLATE AND LIQUID CRYSTAL DISPLAY	LEE JEONG HO OH YOUNG WEE	SAMSUNG SDI CO LTD	JP2020038370A	2018-08-31	G02B5/02 G02B5/30	G02B5/3025 (US) G02B5/305 (CN)	2020-03-12	2020-03-05	069640993

DEVICE HAVING THE SAME	DONG HO				G02F1/1335 G02F1/13357	G02F1/133528 (EP,CN,US)			
57. ELECTRODE ASSEMBLY AND SECONDARY BATTERY INCLUDING THE SAME									
Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
ELECTRODE ASSEMBLY AND SECONDARY BATTERY INCLUDING THE SAME	JANG MIYOUNG JO YUNKYUNG KIMU CHANJUN SON SUKJUNG	SAMSUNG SDI CO LTD	JP2013235841A JP5612175B2	2009-10-01	H01M2/02 H01M4/02 H01M10/04 H01M10/0585 H01M2/26 H01M10/058	H01M10/0436 (EP,US) H01M10/052 (EP,KR,US) H01M10/0585 (EP,KR,US) H01M2/1673 (US) H01M2/26 (KR) H01M4/13 (KR) H01M4/64 (US) H01M4/72 (US) H01M10/0436 (KR) H01M2/0275 (KR) Y02E60/10 (US)	2013-11-21 2014-10-22	2011-04-06	043063412
58. RESIST UNDERLAYER COMPOSITION, AND METHOD OF FORMING PATTERNS USING THE COMPOSITION									
Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
RESIST UNDERLAYER COMPOSITION, AND METHOD OF FORMING PATTERNS USING THE COMPOSITION	BAE SHINHYO BAEK JAEYEOL CHOI YOOJEONG JOO BEOM JUN KWON SOONHYUNG PARK HYEON	SAMSUNG SDI CO LTD	JP2019215540A	2018-06-11	C08G75/045 G03F7/11 G03F7/26	C08G18/022 (US) C08G18/3853 (EP) C08G18/3876 (EP) C08L61/06 (US) C08L61/28 (US) C08L63/00 (US) C08L75/04 (US) G03F7/004 (CN) G03F7/0041 (US) G03F7/0045 (US) G03F7/091 (EP) G03F7/094 (EP,US) G03F7/11 (CN) C08G73/0644 (EP)	2019-12-19	2019-12-12	068763819
59. NICKEL-BASED ACTIVE MATERIAL PRECURSOR FOR LITHIUM SECONDARY BATTERY, METHOD OF PREPARING THE SAME, NICKEL-BASED ACTIVE MATERIAL FOR LITHIUM SECONDARY BATTERY FORMED THEREFROM, AND LITHIUM SECONDARY BATTERY INCLUDING POSITIVE ELECTRODE INCLUDING NICKEL-BASED ACTIVE MATERIAL									
Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
NICKEL-BASED ACTIVE MATERIAL PRECURSOR FOR LITHIUM SECONDARY BATTERY, METHOD OF PREPARING THE SAME, NICKEL-BASED ACTIVE MATERIAL FOR LITHIUM SECONDARY BATTERY FORMED THEREFROM, AND LITHIUM SECONDARY BATTERY INCLUDING POSITIVE ELECTRODE INCLUDING NICKEL-BASED ACTIVE MATERIAL	HYUN JANGSUK YANG WU- YEONG YOON PIL-SANG	SAMSUNG SDI CO LTD	JP2020004722A	2018-06-26	H01M4/36 H01M4/505 H01M4/525	C01B35/10 (CN) C01G53/006 (EP,CN) C01G53/42 (EP) C01G53/50 (EP) H01M10/0525 (EP,CN,US) H01M4/1391 (EP) H01M4/366 (EP,US) H01M4/485 (CN) H01M4/505 (EP,CN,US) H01M4/525 (EP,CN,US) C01P2004/03 (CN) C01P2004/50 (EP)	2020-01-09	2019-12-26	067070734

						C01P2004/54 (EP) C01P2004/61 (EP) H01M2004/028 (US)			
60. LITHIUM SECONDARY BATTERY									
Title LITHIUM SECONDARY BATTERY	Inventors HONG JIN-GYU KIM JUN-SIK KIM SUNG-SOO KIM TAE KEUN	Applicants SAMSUNG SDI CO LTD	Publication number JP2012059690A JP5622627B2	Earliest priority 2010-09-13	IPC H01M4/13 H01M4/52 H01M4/131 H01M4/505 H01M4/62 H01M4/525	CPC B01J20/20 (EP,US) B01J20/2803 (EP,US) B01J20/28066 (EP,US) B01J20/28069 (EP,US) C01B32/30 (EP,KR) H01M10/0525 (KR) H01M4/131 (EP,US) H01M4/364 (EP,US) H01M4/505 (EP,KR,US) H01M4/525 (EP,US) H01M4/62 (KR) H01M4/625 (EP,US) H01M4/628 (EP,US) C01P2002/02 (EP,US) C01P2006/12 (EP,US) H01M10/0525 (EP,US) H01M2004/021 (EP,US) H01M4/621 (EP,US)	Publication date 2012-03-22 2014-11-12	Earliest publication 2012-03-14	Family number 045090912
61. POWER SOURCE SYSTEM									
Title POWER SOURCE SYSTEM	Inventors FURUSAWA KENJI MURAOKA MITSUTOSHI MURAYAMA YOSHIYA YOSHIDA TARO	Applicants SAMSUNG SDI CO LTD	Publication number JP2017147887A JP6700060B2	Earliest priority 2016-02-18	IPC B60R16/03 H02J7/00 H02M3/155	CPC	Publication date 2017-08-24 2020-05-27	Earliest publication 2017-08-24	Family number 059681628
62. ELECTRODE FORMING COMPOSITION, ELECTRODE MANUFACTURED BY USING THE SAME, AND SOLAR CELL									
Title ELECTRODE FORMING COMPOSITION, ELECTRODE MANUFACTURED BY USING THE SAME, AND SOLAR CELL	Inventors LEE YOUNG-SIL LYU SEUNG- CHUL MOON SUNG-IL PARK HYUNG-SEOK	Applicants SAMSUNG SDI CO LTD	Publication number JP2016213440A JP6656028B2	Earliest priority 2015-04-28	IPC C08K3/08 C08K3/22 C08L1/08 H01B1/22 H01L21/28 H01L21/288 H01L31/0224	CPC H01B1/16 (EP,US) H01B1/22 (EP,CN,US) H01L31/022425 (EP,CN,US) H01L31/042 (CN) Y02E10/50 (EP,US)	Publication date 2016-12-15 2020-03-04	Earliest publication 2016-11-01	Family number 057205195

63. POSITIVE ELECTRODE ACTIVE MATERIAL FOR LITHIUM SECONDARY BATTERY, METHOD FOR PRODUCING THE SAME, AND LITHIUM SECONDARY BATTERY INCLUDING THE POSITIVE ELECTRODE ACTIVE MATERIAL FOR LITHIUM SECONDARY BATTERY

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
POSITIVE ELECTRODE ACTIVE MATERIAL FOR LITHIUM SECONDARY BATTERY, METHOD FOR PRODUCING THE SAME, AND LITHIUM SECONDARY BATTERY INCLUDING THE POSITIVE ELECTRODE ACTIVE MATERIAL FOR LITHIUM SECONDARY BATTERY	KIM JI-HYUN KIM KI HYUN LEE HA-YOUNG LIU RONGZAN PARK HAN-OL PARK SANG-IN SONG JAE-HYOK	SAMSUNG SDI CO LTD	JP2013062246A JP6192273B2	2011-09-14	H01M10/0566 H01M4/136 H01M10/052 H01M4/36 H01M4/58 H01M4/583 H01M4/62	H01M10/052 (KR) H01M10/0525 (EP,US) H01M4/0471 (KR) H01M4/134 (KR) H01M4/136 (KR) H01M4/1395 (KR) H01M4/1397 (KR) H01M4/386 (KR) H01M4/5825 (EP,US) H01M4/583 (KR) H01M4/622 (KR) H01M4/625 (EP,US) H01M4/1397 (EP,US) Y02E60/10 (US) Y02P70/50 (EP,KR,US)	2013-04-04 2017-09-06	2013-03-14	046545272

64. NEGATIVE ELECTRODE ACTIVE MATERIAL, NEGATIVE ELECTRODE AND LITHIUM BATTERY INCLUDING THE NEGATIVE ELECTRODE ACTIVE MATERIAL, AND METHOD OF PRODUCING THE NEGATIVE ELECTRODE ACTIVE MATERIAL

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
NEGATIVE ELECTRODE ACTIVE MATERIAL, NEGATIVE ELECTRODE AND LITHIUM BATTERY INCLUDING THE NEGATIVE ELECTRODE ACTIVE MATERIAL, AND METHOD OF PRODUCING THE NEGATIVE ELECTRODE ACTIVE MATERIAL	KIM BUM KWON KIN JAE MYUNG LEE SO-RA SIN CHANG SOO TO GISHO	SAMSUNG SDI CO LTD	JP2012227147A JP6240375B2	2011-04-19	C01B31/02 C01G23/00 H01M4/36 H01M4/38 H01M4/48 H01M4/485 H01M4/587 H01M4/46	B82Y30/00 (EP,US) H01M4/13 (EP,US) H01M4/139 (EP,US) H01M4/366 (EP,US) H01M4/38 (EP,US) H01M4/485 (EP,US) H01M4/587 (EP,US) H01M10/052 (EP,US) H01M2004/027 (EP,US) H01M4/625 (EP,US) Y02E60/10 (US)	2012-11-15 2017-11-29	2012-10-24	045976806

65. NICKEL-BASED ACTIVE MATERIAL PRECURSOR FOR LITHIUM SECONDARY BATTERY, METHOD FOR PRODUCING THE SAME, NICKEL-BASED ACTIVE MATERIAL FORMED THEREFROM FOR LITHIUM SECONDARY BATTERY, AND LITHIUM SECONDARY BATTERY INCLUDING POSITIVE ELECTRODE INCLUDING THE SAME

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
NICKEL-BASED ACTIVE MATERIAL PRECURSOR FOR LITHIUM SECONDARY BATTERY, METHOD FOR PRODUCING THE SAME, NICKEL-BASED ACTIVE MATERIAL FORMED THEREFROM FOR	HYUN JANGSUK YANG WU-YEONG YOON PIL-SANG	SAMSUNG SDI CO LTD	JP2020064858A	2018-10-16	C01B25/45 H01M4/36 H01M4/505 H01M4/525	C01B25/45 (CN) C01B35/10 (CN) C01B35/128 (CN) C01G53/006 (EP,CN,US) C01G53/50 (EP) H01M10/052 (CN) H01M10/0525 (US) H01M4/366	2020-04-23	2020-04-16	068281234

LITHIUM SECONDARY BATTERY, AND LITHIUM SECONDARY BATTERY INCLUDING POSITIVE ELECTRODE INCLUDING THE SAME						(US) H01M4/485 (CN) H01M4/505 (CN) H01M4/525 (EP,CN,US) C01P2002/85 (CN) C01P2004/03 (CN,US) C01P2004/04 (CN,US) C01P2004/20 (EP) C01P2004/61 (EP) C01P2004/84 (EP) C01P2006/40 (US) H01M2004/021 (US)			
--	--	--	--	--	--	--	--	--	--

66. PHOTOSENSITIVE RESIN COMPOSITION PHOTOSENSITIVE RESIN LAYER USING THE SAME AND COLOR FILTER

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
PHOTOSENSITIVE RESIN COMPOSITION PHOTOSENSITIVE RESIN LAYER USING THE SAME AND COLOR FILTER	JUNG JU HO [kr] KIM KYU YOUNG [kr] SEO KWANG WON [kr] SHIN MYOUNG YOUP [kr]	SAMSUNG SDI CO LTD [kr]	KR102023158B1 KR20180039976A	2016-10-11	C08F2/44 C08F2/50 C08F20/18 C08K5/00 C08K5/1545 C08K5/16 C08K5/372 G02B5/20		2018-04-19 2019-09-19	2018-04-19	062087579

67. SECONDARY BATTERY

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
SECONDARY BATTERY	BYUN SANG-WON KIM HYOUNG-SHICK OH JEONG-WON RI SHOFUKU YUN YONG HEE	SAMSUNG SDI CO LTD	JP2014212098A JP6218540B2	2013-04-17	H01H85/10 H01H85/12 H01H85/17 H01H85/175 H01M2/26 H01M2/30 H01M2/34	H01M10/0413 (EP,CN,KR,US) H01M10/058 (KR) H01M2/26 (EP,CN,US) H01M2/263 (KR) H01M2/34 (US) H01M2/348 (EP,CN,KR,US) H01M10/058 (EP,CN,US) H01M2200/103 (EP,CN,KR,US)	2014-11-13 2017-10-25	2014-10-22	049328447

68. SECONDARY BATTERY

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
SECONDARY BATTERY	CHOI JINKYU	SAMSUNG SDI CO LTD	JP2015130313A JP6508693B2	2014-01-08	H01M2/02 H01M2/04 H01M2/26	H01M10/0431 (EP) H01M2/0207 (EP) H01M2/0404 (EP) H01M2/20 (CN) H01M2/204 (CN) H01M2/26 (CN) H01M2/263 (EP) H01M2/30 (CN) H01M2/0456 (EP) H01M2002/0205 (EP)	2015-07-16 2019-05-08	2015-07-08	051726454

69. SECONDARY BATTERY

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
SECONDARY BATTERY									

	KWON MIN-HYEONG LEE CHI-YOUNG	SAMSUNG SDI CO LTD	JP2015176865A JP6532100B2	2014-03-17	H01M2/30 H01M2/34	H01M2/1241 (EP,CN,US) H01M2/1252 (EP,CN,US) H01M2/345 (EP,CN,US) H01M2/30 (EP,CN,US) H01M2200/20 (EP,CN,US)	2015-10-05 2019-06-19	2015-09-17	052736830
--	----------------------------------	-----------------------	------------------------------	------------	----------------------	--	--------------------------	------------	-----------

70. BATTERY MODULE

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
BATTERY MODULE	IM JANG-YEONG LEE JANG-WOOK	SAMSUNG SDI CO LTD	JP2015032586A JP6564562B2	2013-08-05	H01M10/613 H01M10/625 H01M10/6557 H01M10/6561 H01M2/10	H01M10/613 (EP,US) H01M10/625 (EP,US) H01M10/647 (EP,US) H01M10/6557 (EP,US) H01M10/656 (EP,US) H01M2/1077 (EP,CN,US) H01M2/14 (EP,US) H01M2220/20 (EP,CN,US)	2015-02-16 2019-08-21	2015-02-05	051292819

71. ORGANIC COMPOUND, COMPOSITION, ORGANIC OPTOELECTRONIC ELEMENT AND DISPLAY DEVICE

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
ORGANIC COMPOUND, COMPOSITION, ORGANIC OPTOELECTRONIC ELEMENT AND DISPLAY DEVICE	HAN SU-JIN JUNG HO-KUK KIM YOUNGKWON LEE HAN-ILL MIN SOO-HYUN SHIN CHANGJU YU EUN-SUN	SAMSUNG SDI CO LTD	JP2015218165A JP6478672B2	2014-05-20	C07D239/70 H01L51/50 C09K11/06	C07D209/82 (EP) C07D239/70 (EP,CN,US) C07D239/74 (KR) C09K11/025 (EP,US) C09K11/06 (EP,KR,US) H01L51/0052 (CN) H01L51/0055 (CN) H01L51/0058 (CN) H01L51/0067 (CN) H01L51/0072 (CN,US) H01L51/0073 (CN) H01L51/0074 (CN) H01L51/5012 (KR) C09K2211/185 (US) H01L2251/5384 (EP) H01L51/5012 (US)	2015-12-07 2019-03-06	2015-11-25	052434682

72. SECONDARY BATTERY

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
SECONDARY BATTERY	KWAK SEUNG-HO KWON MIN-HYEONG SEO YONG-CHUL	SAMSUNG SDI CO LTD	JP2015204292A JP6568703B2	2014-04-14	H01M10/04 H01M2/14 H01M2/34	H01M10/0468 (EP,US) H01M10/4235 (EP,US) H01M2/02 (US) H01M2/10	2015-11-16 2019-08-28	2015-10-14	053267205

						(EP,US) H01M2/18 (US)			
73. BATTERY PACK									
Title BATTERY PACK	Inventors BAE MIN-CHEOL CHOI HONG- KEUN JEONG IK- JAE NOH KYOUNG-HWAN	Applicants SAMSUNG SDI CO LTD	Publication number JP2015056401A JP6494066B2	Earliest priority 2013-09-13	IPC H01M2/30 H01M2/10 H01M2/20	CPC B23K26/244 (EP,KR,US) B23K26/40 (EP,KR,US) H01M2/105 (EP,CN,KR,US) H01M2/204 (EP,CN,KR,US) H01M2/266 (KR) H01M2/30 (KR) H01R4/029 (KR) B23K2103/08 (EP,KR,US) B23K2103/10 (EP) B23K2103/12 (EP) B23K2103/18 (EP) B23K2103/26 (EP) H01R4/029 (EP,CN,US)	Publication date 2015-03-23 2019-04-03	Earliest publication 2015-03-18	Family number 051392171
74. SECONDARY BATTERY									
Title SECONDARY BATTERY	Inventors KWON MIN- HYEONG LEE CHI-YOUNG	Applicants SAMSUNG SDI CO LTD	Publication number JP2015198080A JP6556994B2	Earliest priority 2014-03-31	IPC H01M2/04 H01M2/06 H01M2/30 H01M2/34	CPC H01M2/0473 (EP,CN,US) H01M2/06 (CN) H01M2/1264 (CN) H01M2/30 (EP,CN,US) H01M2/345 (EP,CN,US) H01M2/1241 (EP,US) H01M2200/20 (US)	Publication date 2015-11-09 2019-08-07	Earliest publication 2015-09-30	Family number 052779564
75. LITHIUM ION SECONDARY BATTERY									
Title LITHIUM ION SECONDARY BATTERY	Inventors TAKASE HIROSHIGE YOKOTSUJI HOKUTO	Applicants SAMSUNG SDI CO LTD	Publication number JP2015090857A JP6361113B2	Earliest priority 2013-11-07	IPC H01M10/052 H01M10/0567 H01M4/525	CPC H01M10/0525 (KR) H01M10/0567 (KR) H01M2300/0025 (KR) H01M4/525 (KR) Y02E60/10 (KR)	Publication date 2015-05-11 2018-07-25	Earliest publication 2015-05-11	Family number 053194268
76. BATTERY PACK									
Title BATTERY PACK	Inventors JEONG IK-JAE NOH KYOUNG- HWAN	Applicants SAMSUNG SDI CO LTD	Publication number JP2015050187A JP6570050B2	Earliest priority 2013-09-03	IPC H01M2/10	CPC H01M10/0413 (KR) H01M2/0217 (EP,KR,US) H01M2/1016 (US) H01M2/1061 (EP,KR,US) H01M2/1072 (EP) H01M2/1077 (EP,CN,KR,US) H01M2/1083 (CN)	Publication date 2015-03-16 2019-09-04	Earliest publication 2015-03-04	Family number 051392174

						H01M2/14 (US) H01M2220/20 (EP,CN,KR,US) H01M2220/30 (EP,KR,US)			
77. SECONDARY BATTERY									
Title SECONDARY BATTERY	Inventors JANG MYUNG- JAE KIM SOENG- HUN KIM SUNG- KAB KIM YONG- SAM PARK SE- JONG	Applicants SAMSUNG SDI CO LTD	Publication number JP2014225450A JP6403426B2	Earliest priority 2013-05-15	IPC H01M10/04 H01M2/14 H01M2/18	CPC H01M2/02 (US) H01M2/0202 (US) H01M2/0237 (EP,CN,US) H01M2/32 (EP,CN,US) H01M2/34 (EP,CN,US) H01M10/052 (EP,CN,US) H01M10/0525 (US) H01M2/0217 (US) H01M2/0267 (US) H01M2/0277 (US) H01M2/028 (US) H01M2/029 (US)	Publication date 2014-12-04 2018-10-10	Earliest publication 2014-11-19	Family number 050151194
78. SECONDARY BATTERY									
Title SECONDARY BATTERY	Inventors BYUN SANG- WON LEE HONG- HYEON LEE WON-JUN	Applicants SAMSUNG SDI CO LTD	Publication number JP2015191888A JP6662576B2	Earliest priority 2014-03-28	IPC H01M10/04 H01M2/26 H01M2/34	CPC H01M10/0413 (EP) H01M2/021 (CN) H01M2/0237 (EP,CN) H01M2/1022 (CN) H01M2/1083 (CN) H01M2/14 (EP,CN) H01M2/18 (EP,CN) H01M2/26 (US) H01M2/34 (US) H01M2/345 (EP,CN) H01M2/348 (EP,CN) H01M2/266 (EP) H01M2200/00 (US) H01M2200/10 (EP) H01M2200/103 (EP) H01M2200/20 (EP) H01M2220/20 (US)	Publication date 2015-11-02 2020-03-11	Earliest publication 2015-09-30	Family number 052736961
79. NEGATIVE ELECTRODE ACTIVE MATERIAL, LITHIUM BATTERY INCLUDING THE SAME, AND METHOD OF MANUFACTURING THE NE GATIVE ELECTRODE ACTIVE MATERIAL									
Title NEGATIVE ELECTRODE ACTIVE MATERIAL, LITHIUM BATTERY INCLUDING THE SAME.	Inventors BOKU GENKI HAN DONG-HEE KIN JAE MYUNG PARK SANG-EUN	Applicants SAMSUNG SDI CO LTD	Publication number JP2015115319A JP6662564B2	Earliest priority 2013-12-10	IPC H01M4/36 H01M4/587	CPC H01M10/0525 (KR) H01M4/0471 (EP,CN,KR,US) H01M4/133	Publication date 2015-06-22 2020-03-11	Earliest publication 2015-06-10	Family number 052101081

AND METHOD OF MANUFACTURING THE NEGATIVE ELECTRODE ACTIVE MATERIAL						(EP,CN,KR,US) H01M4/1393 (EP,CN,KR,US) H01M4/366 (EP,CN,KR,US) H01M4/587 (EP,CN,KR,US) H01M4/62 (EP,CN,KR,US) H01M10/0525 (EP,CN,US)			
---	--	--	--	--	--	--	--	--	--

80. POSITIVE ELECTRODE ACTIVE MATERIAL, AND LITHIUM ION SECONDARY BATTERY

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
POSITIVE ELECTRODE ACTIVE MATERIAL, AND LITHIUM ION SECONDARY BATTERY	NAKANO MASATSUGU TAKEI YUKI	SAMSUNG SDI CO LTD	JP2016110889A JP6614766B2	2014-12-09	H01M10/052 H01M4/505 H01M4/525		2016-06-20 2019-12-04	2016-06-17	056124592

81. BATTERY TEMPERATURE CONTROL SYSTEM, POWER STORAGE SYSTEM HAVING THE SAME, AND CONTROL METHOD OF THE SAME

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
BATTERY TEMPERATURE CONTROL SYSTEM, POWER STORAGE SYSTEM HAVING THE SAME, AND CONTROL METHOD OF THE SAME	KIM KISUN	SAMSUNG SDI CO LTD	JP2014067697A JP6194205B2	2012-09-24	H01M10/60 H01M10/48 H02J7/00 H02M7/48 H01M10/615 H01M10/627 H01M10/633 H01M10/637	H01M10/425 (EP,US) H01M10/443 (KR,US) H01M10/486 (EP,KR,US) H01M10/613 (KR,US) H01M10/615 (EP,US) H01M10/625 (KR,US) H01M10/637 (EP,US) H02J2207/20 (US) H02J7/00 (EP,US) H02M3/00 (CN) H01M10/486 (CN) H01M2220/10 (EP,US) H02J2207/20 (CN,KR) Y02E60/12 (KR)	2014-04-17 2017-09-06	2014-03-26	049223676

82. NEGATIVE ELECTRODE MIXTURE FOR SECONDARY BATTERY, NEGATIVE ELECTRODE FOR SECONDARY BATTERY, AND SECONDARY BATTERY

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
NEGATIVE ELECTRODE MIXTURE FOR SECONDARY BATTERY, NEGATIVE ELECTRODE FOR SECONDARY BATTERY, AND SECONDARY BATTERY	EGUCHI KUNIHICO FUKUCHI IWAO KAWASE KENICHI KOIZUMI KO	SAMSUNG SDI CO LTD	JP2019121483A	2017-12-28	H01M4/133 H01M4/1393 H01M4/587 H01M4/62		2019-07-22	2019-07-08	067256884

83. NEGATIVE ELECTRODE ACTIVE MATERIAL FOR SECONDARY BATTERY, LITHIUM SECONDARY BATTERY COMPRISING THE SAME, AND METHOD FOR MANUFACTURING NEGATIVE ELECTRODE FOR LITHIUM SECONDARY BATTERY COMPRISING THE SAME

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
NEGATIVE ELECTRODE ACTIVE MATERIAL FOR SECONDARY BATTERY,	BAIK CHANGKEUN CHOI WAN-UK	SAMSUNG SDI CO LTD	JP2013041826A JP6366160B2	2011-08-15	H01M10/052 H01M10/0566 H01M4/13	C01B33/113 (KR) C01B33/146 (EP,KR)	2013-02-28 2018-08-01	2013-02-20	045894344

LITHIUM SECONDARY BATTERY COMPRISING THE SAME, AND METHOD FOR MANUFACTURING NEGATIVE ELECTRODE FOR LITHIUM SECONDARY BATTERY COMPRISING THE SAME	CHUN HEE-JOON KIM JOON-SUP KIM TAE-GON LEE JEA WOAN LIM YOUNG-CHANG PARK SUNG-HEE RYU JAE-YUL TARUI HISAKI				H01M4/139 H01M4/36 H01M4/48	C01B33/152 (EP) C01B33/157 (EP) C01B33/158 (EP,KR) H01M10/052 (KR) H01M10/0525 (KR) H01M4/134 (EP,KR) H01M4/1395 (EP,KR) H01M4/386 (EP,KR) H01M4/48 (KR) H01M4/485 (KR) H01M4/62 (KR) H01M10/0525 (EP) Y10T29/49115 (EP,US)			
--	---	--	--	--	-----------------------------------	--	--	--	--

84. NEGATIVE ELECTRODE ACTIVE MATERIAL, NEGATIVE ELECTRODE ARRANGED BY ADOPTING THE SAME, AND LITHIUM BATTERY

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
NEGATIVE ELECTRODE ACTIVE MATERIAL, NEGATIVE ELECTRODE ARRANGED BY ADOPTING THE SAME, AND LITHIUM BATTERY	CHU HEEYOUNG KIM JAE-HYUK KWON SEUNG-UK SUH SOON-SUNG YOO HANA YOON DUKHOUNG	SAMSUNG SDI CO LTD	JP2017069206A	2015-10-02	C01B33/06 H01M4/38	B82Y30/00 (CN) B82Y40/00 (CN) C01B33/00 (EP) C22C1/02 (EP) H01M10/052 (CN) H01M10/0525 (EP,CN,US) H01M10/0568 (US) H01M10/0569 (US) H01M2/162 (US) H01M2/1653 (US) H01M4/0404 (US) H01M4/043 (US) H01M4/0471 (US) H01M4/131 (US) H01M4/134 (US) H01M4/1395 (US) H01M4/364 (EP,CN) H01M4/366 (CN) H01M4/382 (CN) H01M4/386 (EP,CN,US) H01M4/405 (CN) H01M4/485 (CN) H01M4/505 (US) H01M4/525 (US) H01M4/587 (CN) H01M4/622 (US) H01M4/623 (US) H01M4/625 (US) H01M4/661 (US) H01M2004/021 (US) H01M2004/027 (US) H01M2004/028 (US) H01M2220/20	2017-04-06	2017-04-05	057042755

						(US) H01M2220/30			
						(US) H01M2300/0034			
						(US) H01M2300/004			
						(US)			

85. ELECTROLYTE FOR LITHIUM SECONDARY BATTERY USE, AND LITHIUM SECONDARY BATTERY INCLUDING THE SAME

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
ELECTROLYTE FOR LITHIUM SECONDARY BATTERY USE, AND LITHIUM SECONDARY BATTERY INCLUDING THE SAME	ALEXEY TERESHCHENKO BAE TAE HYUN CHO E-RANG CHO IN HAENG CHOI DONG-MYUNG CHUNG BYUNG-JOO DENIS CHERNYSHOV HAN SANG-IL JUNG MYUNG-HWAN KIM DUCK-HYUN KIM MOON-SUNG KIM SANG-HOON LEE EON-MI LEE HARIM LEE MI-HYUN LEE SEUNG-TAE MAKHMUT KHASANOV PAVEL ALEXANDROVICH SHATUNOV SHIN WOO CHEOL VLADIMIR EGOROV YANAGI SADAKORE	SAMSUNG SDI CO LTD	JP2014165180A JP6335543B2	2013-02-27	H01M10/0567 H01M10/052	C01B25/26 (EP,KR,US) H01M10/0422 (KR) H01M10/052 (KR) H01M10/0567 (EP,KR,US) H01M10/052 (EP,US) H01M10/0568 (EP,US) H01M10/0569 (EP,US) Y02E60/10 (KR,US)	2014-09-08 2018-05-30	2014-08-28	051388469

86. METHOD FOR MANUFACTURING POSITIVE ELECTRODE ACTIVE SUBSTANCE MATERIAL, METHOD FOR MANUFACTURING NONAQUEOUS ELECTROLYTE SECONDARY BATTERY, POSITIVE ELECTRODE ACTIVE SUBSTANCE MATERIAL, POSITIVE ELECTRODE FOR NONAQUEOUS ELECTROLYTE SECONDARY BATTERY, AND NONAQUEOUS ELECTROLYTE SECONDARY BATTERY

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
METHOD FOR MANUFACTURING POSITIVE ELECTRODE ACTIVE SUBSTANCE MATERIAL, METHOD FOR MANUFACTURING NONAQUEOUS ELECTROLYTE SECONDARY BATTERY, POSITIVE ELECTRODE ACTIVE SUBSTANCE MATERIAL, POSITIVE ELECTRODE FOR NONAQUEOUS ELECTROLYTE SECONDARY BATTERY, AND NONAQUEOUS ELECTROLYTE SECONDARY BATTERY	KAWASE KENICHI OKAMOTO KENTARO TAKEI YUKI	SAMSUNG SDI CO LTD	JP2019121606A	2017-12-28	C01G53/00 H01M4/36 H01M4/505 H01M4/525		2019-07-22	2019-07-08	067256819

87. COMPOUND, ORGANIC LAYER COMPOSITION, ORGANIC LAYER, AND METHOD OF FORMING PATTERNS									
Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
COMPOUND, ORGANIC LAYER COMPOSITION, ORGANIC LAYER, AND METHOD OF FORMING PATTERNS	HEO YU-MI KANG SUN-HAE KIM YOUNG MIN KWON HYO- YOUNG MUN SOO-HYEON NAM YOUNHEE NAMGUNG RAN	SAMSUNG SDI CO LTD	JP2017014191A	2015-07-06	C07D209/14 C07D209/58 C07D209/86 C07D311/82 C07D333/54 C07D333/56 C08G12/26 G03F7/11 G03F7/16 G03F7/26 H01L21/027	C07D209/12 (EP,CN,US) C07D209/60 (CN) C07D209/62 (EP,US) C07D209/82 (EP,US) C07D209/86 (EP,CN,US) C07D209/90 (EP,US) C07D219/00 (EP,US) C07D307/80 (EP,US) C07D307/92 (EP,US) C07D311/82 (EP,CN,US) C07D333/56 (EP,CN,US) C07D333/74 (EP,US) C07D335/12 (EP,US) C07D345/00 (EP,US) C09D179/04 (EP,US) G03F1/46 (CN) G03F1/56 (CN) G03F7/0752 (EP,US) G03F7/091 (EP,US) G03F7/094 (EP,US)	2017-01-19	2017-01-12	057730061
88. SEPARATION MEMBRANE, LITHIUM BATTERY EMPLOYING SEPARATION MEMBRANE, AND MANUFACTURING METHOD OF SEPARATION MEMBRANE									
Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
SEPARATION MEMBRANE, LITHIUM BATTERY EMPLOYING SEPARATION MEMBRANE, AND MANUFACTURING METHOD OF SEPARATION MEMBRANE	KIM GAIN KIM YONGKYOUNG LEE JUNGYOON	SAMSUNG SDI CO LTD	JP2019133934A	2018-02-01	B32B27/18 H01M2/16	C08J7/0427 (US) C09D125/16 (US) H01M10/052 (CN) H01M10/0525 (EP,CN,US) H01M10/0565 (EP,US) H01M10/0587 (US) H01M2/145 (CN,US) H01M2/1653 (US) H01M2/1686 (CN,US) H01M4/02 (US) H01M2004/027 (US) H01M2004/028 (US) H01M2300/0085 (EP,US)	2019-08-08	2019-08-01	065243475

						H01M2300/0097 (EP,US)			
89. POSITIVE ELECTRODE ACTIVE MATERIAL FOR LITHIUM SECONDARY BATTERY AND LITHIUM SECONDARY BATTERY INCLUDING THE SAME									
Title POSITIVE ELECTRODE ACTIVE MATERIAL FOR LITHIUM SECONDARY BATTERY AND LITHIUM SECONDARY BATTERY INCLUDING THE SAME	Inventors BOKU DOKEI CHOI JEONJIN JEON GYURAN KIM DONG-CHIN KIM ILSEOK KIM MIN-HAN LEE DAEHOE LIM OKGYU PARK JUNSEOK	Applicants SAMSUNG SDI CO LTD	Publication number JP2019024004A	Earliest priority 2017-07-24	IPC H01M4/36 H01M4/505 H01M4/525 H01M4/62	CPC	Publication date 2019-02-14	Earliest publication 2019-02-01	Family number 065367949
90. NEGATIVE ELECTRODE ACTIVE MATERIAL AND LITHIUM BATTERY EMPLOYING THE SAME MATERIAL									
Title NEGATIVE ELECTRODE ACTIVE MATERIAL AND LITHIUM BATTERY EMPLOYING THE SAME MATERIAL	Inventors CHO YU-JEONG KIM JAE-MYUNG LI SHAO LUO LI SOO KYUNG SHEN CHANG-SU TO GISHO YOO HA-NA	Applicants SAMSUNG SDI CO LTD	Publication number JP2013084601A JP6207143B2	Earliest priority 2011-10-05	IPC H01M4/36 H01M4/38 H01M4/48 H01M4/587 H01M4/62 H01M4/13 H01M4/133 H01M4/134	CPC H01M10/0525 (KR) H01M4/133 (EP,KR) H01M4/134 (EP,KR) H01M4/1393 (KR) H01M4/1395 (KR) H01M4/366 (EP,KR) H01M4/386 (EP,KR) H01M4/485 (EP,KR) H01M4/587 (EP,KR) H01M4/623 (KR) H01M4/625 (EP,KR) H01M10/0525 (EP) H01M4/622 (EP) H01M4/623 (EP)	Publication date 2013-05-09 2017-10-04	Earliest publication 2013-04-10	Family number 047018858
91. LITHIUM SECONDARY BATTERY AND NONAQUEOUS ELECTROLYTE FOR LITHIUM SECONDARY BATTERY									
Title LITHIUM SECONDARY BATTERY AND NONAQUEOUS ELECTROLYTE FOR LITHIUM SECONDARY BATTERY	Inventors TAKASE HIROSHIGE	Applicants SAMSUNG SDI CO LTD	Publication number JP2008146862A JP5702901B2	Earliest priority 2006-12-06	IPC H01M10/05 H01M10/052 H01M10/0567 H01M4/02 H01M4/13 H01M4/62	CPC H01M10/0525 (KR) H01M10/0567 (KR) H01M4/13 (KR) H01M2300/0025 (KR) Y02E60/10 (KR)	Publication date 2008-06-26 2015-04-15	Earliest publication 2008-06-11	Family number 039606809
92. NEGATIVE ELECTRODE ACTIVE MATERIAL FOR LITHIUM ION SECONDARY BATTERY									
Title NEGATIVE ELECTRODE ACTIVE MATERIAL FOR LITHIUM ION SECONDARY BATTERY	Inventors INAGAKI TORU KOBAYASHI NAOYA	Applicants SAMSUNG SDI CO LTD	Publication number JP2011175766A JP5646188B2	Earliest priority 2010-02-23	IPC C01B33/113 H01M4/13 H01M4/48 H01M4/62	CPC H01M10/0525 (KR) H01M4/48 (KR) H01M4/622 (KR) H01M4/625 (KR) Y02E60/10 (KR)	Publication date 2011-09-08 2014-12-24	Earliest publication 2011-08-31	Family number 044688465
93. SECONDARY BATTERY, ITS MANUFACTURING METHOD, AND OPERATION METHOD OF THE SAME									
Title	Inventors	Applicants	Publication	Earliest	IPC	CPC	Publication	Earliest	Family

SECONDARY BATTERY, ITS MANUFACTURING METHOD, AND OPERATION METHOD OF THE SAME	CHOE IK-GYU KIM YOUNG-GI KIM YUN-CHANG LIU RONGZAN PARK YONG- CHOL YI CHANG- HUN YI HYON- DOK	SAMSUNG SDI CO LTD	number JP2011258556A JP5649518B2	priority 2010-06-04	H01M2/16 H01M4/131 H01M4/485 H01M4/62 C01G39/00 H01M10/052 H01M4/36 H01M4/525 H01M4/364 (EP,US) H01M4/366 (EP,US) H01M4/48 (EP,US) H01M4/62 (EP,US) C01P2002/72 (EP,US) C01P2006/40 (EP,US) H01M10/526 (EP,US) H01M4/525 (EP,US) Y02E60/10 (US) Y02P70/50 (EP,US) Y10T29/49108 (EP,US)	C01G39/00 (EP,US) H01M10/052 (EP,US) H01M10/4235 (EP,US) H01M10/52 (EP,US) H01M4/364 (EP,US) H01M4/366 (EP,US) H01M4/48 (EP,US) H01M4/62 (EP,US) C01P2002/72 (EP,US) C01P2006/40 (EP,US) H01M10/526 (EP,US) H01M4/525 (EP,US) Y02E60/10 (US) Y02P70/50 (EP,US) Y10T29/49108 (EP,US)	date 2011-12-22 2015-01-07	publication 2011-12-07	number 044510007
---	--	-----------------------	---	-------------------------------	--	---	---	----------------------------------	----------------------------

94. LITHIUM SECONDARY BATTERY

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
LITHIUM SECONDARY BATTERY	CHOI WAN-UK CHUN HEE-JOON KIM JOON-SUP KIM TAE-GON LEE JEA WOAN LIM YOUNG- CHANG PARK SUNG-HEE RYU JAE-YUL TARUI HISAKI	SAMSUNG SDI CO LTD	JP2013055051A JP6163294B2	2011-08-31	H01M10/0567 H01M10/058 H01M10/052 H01M10/0569 H01M4/13 H01M4/36 H01M4/48	H01M10/0525 (EP,US) H01M10/446 (EP,US) H01M4/483 (EP,US) H01M4/625 (EP,US) Y02E60/10 (US)	2013-03-21 2017-07-12	2012-11-15	046650445

95. POSITIVE ELECTRODE COMPOSITION FOR RECHARGEABLE LITHIUM BATTERY, POSITIVE ELECTRODE FOR RECHARGEABLE LITHIUM BATTERY, AND RECHARGEABLE LITHIUM BATTERY

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
POSITIVE ELECTRODE COMPOSITION FOR RECHARGEABLE LITHIUM BATTERY, POSITIVE ELECTRODE FOR RECHARGEABLE LITHIUM BATTERY, AND RECHARGEABLE LITHIUM BATTERY	KIM EUNJUNG KIM IN KIM JAEKYUNG KIM YOUNGEUN YANG SANG- WOON	SAMSUNG SDI CO LTD	JP2016039142A	2014-08-05	H01M10/052 H01M10/0566 H01M4/13 H01M4/505 H01M4/525 H01M4/58 H01M4/62	H01M10/0525 (EP,CN,US) H01M4/13 (EP,CN,US) H01M4/131 (EP,US) H01M4/136 (US) H01M4/505 (US) H01M4/525 (US) H01M4/5825 (US) H01M4/624 (CN) H01M4/625 (EP,CN,US) H01M2004/028 (US) Y02T10/70 (EP,US)	2016-03-22	2016-02-10	052736832

96. METHOD FOR MANUFACTURING POSITIVE ELECTRODE ACTIVE MATERIAL FOR LITHIUM SECONDARY BATTERY, AND LITHIUM SECONDARY BATTERY INCLUDING THE POSITIVE ELECTRODE ACTIVE MATERIAL

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
METHOD FOR MANUFACTURING POSITIVE ELECTRODE ACTIVE MATERIAL FOR LITHIUM SECONDARY BATTERY, AND LITHIUM SECONDARY BATTERY INCLUDING THE POSITIVE ELECTRODE ACTIVE MATERIAL	CHOI ICK-KYU KIM YONG-GI PARK NA RI PARK YOUNG-CHUL YI SUN-RYUL YI YEONG-HUN YOO NA LEUM	SAMSUNG SDI CO LTD	JP2019040875A	2013-03-28	C01G53/00 H01M10/052 H01M10/0566 H01M4/36 H01M4/38 H01M4/48 H01M4/505 H01M4/525	B82Y30/00 (EP,CN,US) C01D15/02 (US) C01G53/42 (EP,CN,KR,US) H01M10/052 (CN) H01M10/0525 (KR) H01M4/0402 (US) H01M4/0404 (KR) H01M4/0471 (US) H01M4/131 (US) H01M4/133 (KR) H01M4/134 (KR) H01M4/366 (EP,KR,US) H01M4/386 (EP,KR,US) H01M4/485 (EP,KR,US) H01M4/505 (CN,KR,US) H01M4/525 (EP,CN,KR,US) C01P2002/50 (EP,CN,US) C01P2004/03 (EP,CN,US) C01P2004/62 (EP,CN,US) C01P2004/64 (EP,CN,US) C01P2004/84 (EP,CN,US) H01M2004/028 (EP,US) H01M2220/30 (EP,KR,US) H01M4/0404 (EP,US) H01M4/0407 (EP,US) H01M4/133 (EP,US) H01M4/134 (EP,US) Y02E60/10 (US) Y02P70/50 (EP,US)	2019-03-14	2014-10-01	050277142

97. SOLAR CELL

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
SOLAR CELL	CHO JAE HWI HA HYUN JIN KIN SOCHIN PARK SANG HEE	SAMSUNG SDI CO LTD	JP2019106524A	2017-12-08	C03C8/24 H01L31/0224 H01L31/0236	H01B1/22 (EP,US) H01L31/022425 (EP,US) H01L31/02363 (EP) H01L31/068 (EP) Y02E10/547 (EP)	2019-06-27	2019-06-12	062947986

98. ADHESIVE COMPOSITION FOR OPTICAL FILMS, ADHESIVE LAYER AND METHOD FOR PRODUCING THE SAME, OPTICAL MEMBER, AND IMAGE DISPLAY DEVICE									
Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
ADHESIVE COMPOSITION FOR OPTICAL FILMS, ADHESIVE LAYER AND METHOD FOR PRODUCING THE SAME, OPTICAL MEMBER, AND IMAGE DISPLAY DEVICE	INUI KUNIHICO OGAWA HIROSHI SUWA TATSUHIRO TAKAHASHI TOSHIYUKI	SAMSUNG SDI CO LTD	JP2018024830A	2016-08-09	C09J11/06 C09J133/02 C09J133/06 C09J133/14 C09J183/02 C09J7/20 G02B5/30 G02F1/1335	C09J11/06 (KR) C09J11/08 (KR) C09J133/08 (KR) C09J133/10 (KR) C09J7/20 (KR) G02B5/30 (KR) G02F1/133528 (KR) C09J2301/312 (KR)	2018-02-15	2018-02-15	061195479
99. SEPARATOR FOR LITHIUM SECONDARY BATTERY AND LITHIUM SECONDARY BATTERY INCLUDING THE SAME									
Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
SEPARATOR FOR LITHIUM SECONDARY BATTERY AND LITHIUM SECONDARY BATTERY INCLUDING THE SAME	CHOI YEON-JOO GOH AE HUI LEE EON-MI NAM JUNG-HYUN PARK JONG-HWAN SEOK HOON	SAMSUNG SDI CO LTD	JP2016100333A	2014-11-19	H01M2/16	H01M10/052 (EP) H01M10/0525 (CN) H01M2/145 (CN) H01M2/162 (EP) H01M2/1633 (EP) H01M2/1646 (EP,US) H01M2/1653 (EP,US) H01M2/166 (CN) H01M2/1686 (EP,CN,US)	2016-05-30	2016-05-19	054065777
100. BATTERY MODULE									
Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
BATTERY MODULE	KIM SUK-KYUM PARK DONG-JIN	SAMSUNG SDI CO LTD	JP2016143662A JP6550258B2	2015-02-03	H01M2/10 H01M2/12 H01M2/20	H01M2/043 (CN) H01M2/0482 (CN) H01M2/10 (EP,US) H01M2/1016 (KR,US) H01M2/1022 (US) H01M2/1072 (US) H01M2/12 (CN) H01M2/1211 (EP,KR,US) H01M2/1241 (KR) H01M2/1264 (KR,US) H01M2/202 (US) H01M2/204 (US) H01M2/206 (US) H01M2/34 (US) H01M2220/20 (US) H01M2220/30 (US) Y02E60/12 (KR)	2016-08-08 2019-07-24	2016-08-04	055304893
101. COMPOSITE MATERIAL, METHOD FOR MANUFACTURING COMPOSITE MATERIAL, ANODE ACTIVE MATERIAL CONTAINING COMPOSITE MATERIAL, ANODE CONTAINING ANODE ACTIVE MATERIAL, AND LITHIUM SECONDARY BATTERY COMPRISING ANODE									
Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
COMPOSITE MATERIAL, METHOD FOR MANUFACTURING COMPOSITE MATERIAL,	CHOI YOUNG-MIN KIN KEISEI PARK KYU-SUNG SONG MIN SANG	SAMSUNG SDI CO LTD	JP2013016465A JP6109488B2	2011-07-05	H01M4/36 H01M4/485	C01D15/00 (KR) C01D15/02 (KR) C01G23/00 (KR) C01G23/005	2013-01-24 2017-04-05	2013-01-09	046319610

ANODE ACTIVE MATERIAL CONTAINING COMPOSITE MATERIAL, ANODE CONTAINING ANODE ACTIVE MATERIAL, AND LITHIUM SECONDARY BATTERY COMPRISING ANODE						(EP,US) C01G23/04 (KR) C01G29/00 (KR) C01G29/006 (EP,US) H01M10/052 (KR) H01M4/0471 (EP,US) H01M4/131 (EP,US) H01M4/1391 (EP,US) H01M4/364 (EP,US) H01M4/483 (EP,US) H01M4/485 (EP,US) C01P2002/52 (EP,US) C01P2006/40 (EP,US) H01M10/0525 (EP,US) H01M2004/027 (EP,US) Y02E60/10 (US) Y02P70/50 (EP,US)		
---	--	--	--	--	--	--	--	--

102. Optical film, and polarizing plate and liquid crystal display apparatus comprising the same

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
Optical film, and polarizing plate and liquid crystal display apparatus comprising the same	JUNG YONG-UN LEE DAE-GYU	SAMSUNG SDI CO LTD	CN109946770A	2017-12-19	G02B1/10 G02B1/11 G02B5/00 G02B5/30 G02F1/1335	B32B7/12 (EP,US) C09B29/0834 (US) C09B67/0046 (EP,US) C09J11/06 (US) G02B1/14 (US) G02B27/285 (EP,US) G02B5/0236 (EP,US) G02B5/0268 (EP,US) G02B5/0294 (EP,US) G02B5/305 (US) G02F1/133509 (US) G02F1/133528 (EP,US) C08K5/0041 (EP,US) C08K5/23 (EP,US) C09K2323/031 (US) G02B5/045 (EP,US) G02F2001/133507 (EP,US)	2019-06-28	2019-06-20	066815160

103. BINDER FOR SECONDARY BATTERIES, SECONDARY BATTERY SEPARATOR AND SECONDARY BATTERY

Title	Inventors	Applicants	Publication	Earliest	IPC	CPC	Publication	Earliest	Family
-------	-----------	------------	-------------	----------	-----	-----	-------------	----------	--------

BINDER FOR SECONDARY BATTERIES, SECONDARY BATTERY SEPARATOR AND SECONDARY BATTERY	FUKUCHI IWAO PARK JUN	SAMSUNG SDI CO LTD	number JP2016028376A	priority 2014-07-10	H01M2/16		date 2016-02-25	publication 2016-01-20	number 055360780
---	--------------------------	-----------------------	--------------------------------	-------------------------------	----------	--	---------------------------	----------------------------------	----------------------------

104. NONAQUEOUS ELECTROLYTE SECONDARY BATTERY

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
NONAQUEOUS ELECTROLYTE SECONDARY BATTERY	NISHIMOTO ATSUSHI TAKANO YASUO	SAMSUNG SDI CO LTD	JP2016126857A	2014-12-26	H01M10/0587 H01M2/26		2016-07-11	2016-07-06	056359626

105. AROMATIC VINYL COPOLYMER AND THERMOPLASTIC RESIN COMPOSITION INCLUDING THE SAME

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
AROMATIC VINYL COPOLYMER AND THERMOPLASTIC RESIN COMPOSITION INCLUDING THE SAME	HEO JAE WON JANG JOO HYUN KIM BO EUN KIM IL JIN NATARAJAN SENTHILKUMAR OH JUN SUNG PARK KWANG SOO	SAMSUNG SDI CO LTD	JP2015108140A	2013-12-04	C08F212/10 C08F230/08 C08L101/00 C08L25/12	C08F212/10 C08F230/08 (EP,US) C08F230/08 (US) C08L25/08 (US) C08L33/18 (US) C08L33/20 (US) C08L25/12 (EP,US) C08F212/08, C08F220/44, C08F230/08, INV (EP,US) C08F212/10, C08F230/08, INV (EP,US)	2015-06-11	2015-06-04	052133797

106. POSITIVE ELECTRODE ACTIVE MATERIAL LAYER FOR SECONDARY BATTERY, WOUND DEVICE, AND SECONDARY BATTERY

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
POSITIVE ELECTRODE ACTIVE MATERIAL LAYER FOR SECONDARY BATTERY, WOUND DEVICE, AND SECONDARY BATTERY	FUKAHORI HIRONORI NOMURA KEISUKE	SAMSUNG SDI CO LTD	JP2016126852A JP6571330B2	2014-12-26	H01M10/0587 H01M4/13 H01M4/131 H01M4/62		2016-07-11 2019-09-04	2016-07-06	056357053

107. POLARIZING PLATE AND OPTICAL DISPLAY DEVICE INCLUDING THE SAME

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
POLARIZING PLATE AND OPTICAL DISPLAY DEVICE INCLUDING THE SAME	LEE JEONG HO OH YOUNG WEE DONG HO	SAMSUNG SDI CO LTD	JP2020008858A	2018-07-10	G02B5/02 G02B5/30 G02F1/1335	G02B5/305 (EP,CN) G02F1/133504 (EP) G02F1/133528 (EP,CN,US) G02F1/133606 (US) G02F1/13362 (US) G02F1/133711 (US) G02F2001/133607 (US)	2020-01-16	2020-01-16	069140302

108. FUEL CELL SYSTEM

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
FUEL CELL SYSTEM	CHO HYE-JUNG IN SEIKI JOUNG YOUNG-SOO PARK JUNG-	SAMSUNG SDI CO LTD	JP2010192437A JP5626718B2	2009-02-17	H01M8/04 H01M8/06 H01M8/10	H01M8/04186 (EP,US) H01M8/1011 (EP,US)	2010-09-02 2014-11-19	2010-08-18	042199770

	KURN SONG IN- SEOB					Y02E60/50 (EP,US)			
109. SEPARATOR, METHOD OF PREPARING THE SAME, AND LITHIUM BATTERY INCLUDING THE SAME									
Title SEPARATOR, METHOD OF PREPARING THE SAME, AND LITHIUM BATTERY INCLUDING THE SAME	Inventors KIM GAIN KIM YONGKYOUNG LEE JUNGYOON	Applicants SAMSUNG SDI CO LTD	Publication number JP2019160792A	Earliest priority 2018-03-06	IPC H01M10/052 H01M2/16	CPC H01M10/052 (EP,CN,US) H01M10/4235 (CN) H01M2/145 (EP,CN,US) H01M2/1626 (US) H01M2/1653 (EP) H01M2/166 (EP) H01M2/1686 (EP,CN)	Publication date 2019-09-19	Earliest publication 2019-09-11	Family number 065717839
110. LITHIUM SECONDARY BATTERY AND METHOD FOR MANUFACTURING THE SAME									
Title LITHIUM SECONDARY BATTERY AND METHOD FOR MANUFACTURING THE SAME	Inventors HONG CHONG-GI LEE JOON- HYUNG	Applicants SAMSUNG SDI CO LTD	Publication number JP2014116300A JP6399685B2	Earliest priority 2012-12-05	IPC H01M10/052 H01M10/0566 H01M10/058 H01M2/16 H01M4/131 H01M4/36 H01M4/505 H01M4/525	CPC C01B25/45 (KR) C01G51/42 (KR) H01M10/052 (KR) H01M2/145 (KR) H01M2/1646 (EP,US) H01M2/1653 (EP,KR,US) H01M2/166 (KR) H01M2/1686 (EP,KR,US) H01M4/0404 (KR) H01M4/1391 (KR) H01M4/366 (KR) H01M4/525 (KR) H01M4/5825 (EP,US) H01M4/62 (KR) C01P2004/80 (KR) C01P2006/40 (KR) H01M10/052 (EP,US) Y02E60/122 (KR) Y02P70/54 (KR) Y10T29/49115 (EP,US)	Publication date 2014-06-26 2018-10-03	Earliest publication 2014-06-05	Family number 049510044
111. OUTERMOST SHELL TAPE OF ELECTRODE ASSEMBLY FOR SECONDARY BATTERY AND SECONDARY BATTERY INCLUDING THE SAME									
Title OUTERMOST SHELL TAPE OF ELECTRODE ASSEMBLY FOR SECONDARY BATTERY AND SECONDARY BATTERY INCLUDING THE SAME	Inventors AHN JEONG CHULL NOH SEONGJA	Applicants SAMSUNG SDI CO LTD	Publication number JP2015118921A	Earliest priority 2013-12-16	IPC H01M10/04 H01M10/0587 H01M2/14 H01M2/16	CPC C09J7/00 (US) C09J7/10 (EP) H01M10/0431 (EP,US) H01M10/0481 (EP) H01M10/0569 (US) H01M2/0287 (EP,US) H01M2/1646 (US) H01M2/1653 (US) H01M2/1686 (US) C09J2203/33 (US) C09J2409/00 (US)	Publication date 2015-06-25	Earliest publication 2015-06-17	Family number 051753042

						H01M2300/0028 (US) Y10T428/2848 (EP,US) Y10T428/2883 (EP,US)			
112. POWER CONVERSION SYSTEM FOR MOTOR CAR									
Title POWER CONVERSION SYSTEM FOR MOTOR CAR	Inventors FURUSAWA KENJI ISHIKAWA MASAMI MURAOKA MITSUTOSHI MURAYAMA YOSHIYA YAMANE HIROSHI YOSHIDA TARO	Applicants SAMSUNG SDI CO LTD	Publication number JP2015073423A	Earliest priority 2013-09-06	IPC B60L3/00 H02M3/155	CPC B60L3/003 (KR) H02M7/493 (KR) B60Y2200/91 (KR) B60Y2200/92 (KR) B60Y2306/15 (KR) B60Y2400/3084 (KR) Y02T10/70 (EP)	Publication date 2015-04-16	Earliest publication 2015-03-16	Family number 053015425
113. NEGATIVE ELECTRODE FOR NONAQUEOUS ELECTROLYTE SECONDARY BATTERIES, AND NONAQUEOUS ELECTROLYTE SECONDARY BATTERY									
Title NEGATIVE ELECTRODE FOR NONAQUEOUS ELECTROLYTE SECONDARY BATTERIES, AND NONAQUEOUS ELECTROLYTE SECONDARY BATTERY	Inventors FUKAHORI HIRONORI NOMURA KEISUKE TAKANO YASUO	Applicants SAMSUNG SDI CO LTD	Publication number JP2018120706A	Earliest priority 2017-01-24	IPC H01M4/13 H01M4/62	CPC	Publication date 2018-08-02	Earliest publication 2018-08-01	Family number 063045213
114. RECHARGEABLE BATTERY, AND BATTERY MODULE									
Title RECHARGEABLE BATTERY, AND BATTERY MODULE	Inventors CHOI NAM-SOON KIM JUN-SIK KIM SUNG-SOO KIM TAE-KEUN ROH SAE-WEON SHIN JEONG-SOON	Applicants SAMSUNG SDI CO LTD	Publication number JP2011040379A JP6090711B2	Earliest priority 2009-08-18	IPC H01M10/50 H01M2/02 H01M2/04 H01M2/06 H01M2/08 H01M2/20 H01M2/30 H01M2/34 H01M10/04 H01M2/10 H01M10/613 H01M10/647 H01M10/6551 H01M10/6554 H01M10/6556	CPC H01M10/0585 (EP) H01M10/613 (EP) H01M10/647 (EP) H01M10/6551 (EP) H01M10/6556 (EP) H01M2/021 (EP) H01M2/1072 (EP)	Publication date 2011-02-24 2017-03-08	Earliest publication 2011-02-24	Family number 043131459
115. NEGATIVE ELECTRODE ACTIVE MATERIAL FOR LITHIUM SECONDARY BATTERY, METHOD FOR PRODUCING THE SAME, AND LITHIUM SECONDARY BATTERY INCLUDING THE SAME									
Title NEGATIVE ELECTRODE ACTIVE MATERIAL FOR LITHIUM SECONDARY BATTERY, METHOD FOR PRODUCING THE SAME, AND LITHIUM SECONDARY BATTERY INCLUDING THE SAME	Inventors ISHIDA SUMIHITO KIM HEE-JUNG SO GIKAN	Applicants SAMSUNG SDI CO LTD	Publication number JP2013004519A JP6088749B2	Earliest priority 2011-06-20	IPC H01M10/052 H01M10/0566 H01M4/587 H01M4/133	CPC H01M10/052 (KR) H01M10/0525 (EP) H01M4/133 (EP,KR) H01M4/1393 (KR) H01M4/583 (EP) H01M4/587 (EP,KR) H01M2004/021 (EP) H01M2004/027	Publication date 2013-01-07 2017-03-01	Earliest publication 2012-12-20	Family number 045463441

						(EP) Y02E60/12 (KR)			
116. POLYMER, ORGANIC LAYER FORMING COMPOSITION AND METHOD OF FORMING PATTERNS									
Title POLYMER, ORGANIC LAYER FORMING COMPOSITION AND METHOD OF FORMING PATTERNS	Inventors JUNG HYEON-IL KIM SUNGHWAN PARK YUSHIN	Applicants SAMSUNG SDI CO LTD	Publication number JP2020012110A	Earliest priority 2018-07-18	IPC C08G61/12 G03F7/11 G03F7/20 G03F7/26	CPC C08G8/04 (EP,CN,US) C09D161/06 (EP,US) G03F7/004 (CN) G03F7/094 (EP) G03F7/11 (US) G03F7/16 (CN)	Publication date 2020-01-23	Earliest publication 2020-01-23	Family number 069162820
117. SECONDARY BATTERY									
Title SECONDARY BATTERY	Inventors HEO KYEONGYI KIM JAN-DEE KIM KYUNG KIM WON-SEOK LIN YUNG CHANG RI SHOKEN	Applicants SAMSUNG SDI CO LTD	Publication number JP2018014327A JP6647252B2	Earliest priority 2016-07-20	IPC H01M10/04 H01M2/26 H01M2/30	CPC H01M10/0431 (EP,US) H01M10/052 (EP) H01M10/0587 (EP,US) H01M10/281 (US) H01M10/425 (US) H01M2/14 (US) H01M2/263 (EP,US) H01M2/34 (US)	Publication date 2018-01-25 2020-02-14	Earliest publication 2018-01-24	Family number 059383464
118. LITHIUM BATTERY									
Title LITHIUM BATTERY	Inventors HAN MAN-SEOK KIM MYUNG- HOON KIM SEUNG-WAN WON JUNG-YUN YOO HA-NA	Applicants SAMSUNG SDI CO LTD	Publication number JP2014137996A JP6511222B2	Earliest priority 2013-01-16	IPC H01M4/505 H01M4/525 H01M10/052 H01M10/0567 H01M10/0569 H01M4/38 H01M4/485 H01M4/48	CPC H01M10/052 (EP,CN,KR,US) H01M10/0525 (KR) H01M10/0567 (EP,CN,KR,US) H01M10/0569 (EP,CN,KR,US) H01M4/02 (KR) H01M4/386 (EP,CN,KR,US) H01M4/485 (EP,CN,KR,US) H01M4/525 (KR) H01M2300/0034 (EP,CN,KR,US) H01M2300/004 (EP,CN,KR,US) H01M4/525 (EP,CN,US) Y02T10/70 (EP,KR,US)	Publication date 2014-07-28 2019-05-15	Earliest publication 2014-07-16	Family number 048874158
119. NEGATIVE ELECTRODE ACTIVE MATERIAL, NEGATIVE ELECTRODE INCLUDING THE NEGATIVE ELECTRODE ACTIVE MATERIAL, LITHIUM BATTERY, AND METHOD OF MANUFACTURING THE NEGATIVE ELECTRODE ACTIVE MATERIAL									
Title NEGATIVE ELECTRODE ACTIVE MATERIAL, NEGATIVE ELECTRODE INCLUDING THE NEGATIVE ELECTRODE ACTIVE MATERIAL, LITHIUM BATTERY, AND	Inventors CHU HEE-YOUNG JEONG CHANG- UI KIM JAE-HYUK KWON SEUNG- UK LEE CHUN- GYOO PARK YO HAN SUH SOON-	Applicants SAMSUNG SDI CO LTD	Publication number JP2015141897A JP6601937B2	Earliest priority 2014-01-27	IPC B22F1/00 B22F9/04 B22F9/08 C01B33/02 C01B33/06 C22C30/00	CPC B22F9/04 (US) C22C1/00 (EP,CN,US) H01M10/052 (EP,CN,US) H01M4/0404 (US) H01M4/0483 (US)	Publication date 2015-08-03 2019-11-06	Earliest publication 2015-07-29	Family number 052394180

METHOD OF MANUFACTURING THE NEGATIVE ELECTRODE ACTIVE MATERIAL	SUNG YURY MATULEVICH				H01M4/36 H01M4/38	H01M4/0485 (US) H01M4/0488 (US) H01M4/386 (EP,CN,US) H01M4/622 (US) H01M2004/027 (US) Y02P70/50 (US) Y02T10/70 (EP,US)			
--	-------------------------	--	--	--	----------------------	--	--	--	--

120. ORGANIC ELECTROLYTIC SOLUTION AND LITHIUM BATTERY EMPLOYING THE ORGANIC ELECTROLYTIC SOLUTION

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
ORGANIC ELECTROLYTIC SOLUTION AND LITHIUM BATTERY EMPLOYING THE ORGANIC ELECTROLYTIC SOLUTION	KIM SOOJIN [kr] LEE MINJU [kr] LEE SEUNGTAЕ [kr] SHIN WOOCHEOL [kr]	SAMSUNG SDI CO LTD [kr]	US2016218392A1	2015-01-23	H01M10/0525 H01M10/0567 H01M10/0568 H01M10/0569	H01M10/052 (CN,KR) H01M10/0525 (EP,US) H01M10/0567 (EP,CN,KR,US) H01M10/0568 (EP,US) H01M10/0569 (EP,KR,US) H01M2220/20 (EP,US) H01M2220/30 (EP,CN,US) H01M2300/0025 (CN,KR) H01M2300/0028 (EP,KR,US) H01M2300/0037 (EP,US) H01M2300/0085 (CN) Y02E60/10 (EP,KR,US) Y02T10/70 (EP,US)	2016-07-28	2016-07-28	055221349

121. COMPOUND, ORGANIC LIGHT EMITTING ELEMENT COMPRISING SAME, AND DISPLAY DEVICE COMPRISING ORGANIC LIGHT EMITTING ELEMENT

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
COMPOUND, ORGANIC LIGHT EMITTING ELEMENT COMPRISING SAME, AND DISPLAY DEVICE COMPRISING ORGANIC LIGHT EMITTING ELEMENT	CHAE MI-YOUNG HONG JIN-SEOK HUH DAL-HO JANG YU-NA JO YOUNG-KYOUNG JUNG SUNG- HYUN KIM JUN- SEOK LEE HAN- ILL LEE SEUNG- JAE RYU DONG- KYU RYU DONG- WAN	SAMSUNG SDI CO LTD	JP2018065836A JP6533274B2	2013-05-27	C07D307/91 C07D333/76 C07D413/12 C07D413/14 C07D417/14 G09F9/30 H01L27/32 H01L51/50	C07D307/91 (EP,KR,US) C07D333/76 (EP,KR,US) C07D405/12 (EP,US) C07D405/14 (EP,US) C07D409/12 (EP,US) C07D409/14 (EP,US) C07D413/12 (EP,US) C07D413/14 (EP,US) C07D417/12 (EP,US) C07D417/14 (EP,US) C09K11/06 (EP,US)	2018-04-26 2019-06-19	2014-12-04	051989034

						H01L51/0052 (EP,US) H01L51/0059 (EP,KR,US) H01L51/006 (EP,US) H01L51/0061 (EP,US) H01L51/0062 (KR) H01L51/0071 (EP,US) H01L51/0072 (EP,KR,US) H01L51/0073 (EP,US) H01L51/0074 (EP,KR,US) H01L51/052 (EP,US) H01L51/5024 (KR) H01L51/5056 (KR) C09K2211/1077 (EP,US) C09K2211/1081 (EP,US) H01L51/5012 (US) H01L51/5056 (EP,US) H01L51/5072 (US) H01L51/5088 (US) H01L51/5092 (US) H01L51/5096 (EP,US)		
--	--	--	--	--	--	---	--	--

122. SILICON-CONTAINING COMPOSITION FOR ELECTRONIC ELEMENT PROTECTION, CIRCUIT MODULE ARRANGED BY USE THEREOF, AND MANUFACTURING METHOD THEREOF

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
SILICON-CONTAINING COMPOSITION FOR ELECTRONIC ELEMENT PROTECTION, CIRCUIT MODULE ARRANGED BY USE THEREOF, AND MANUFACTURING METHOD THEREOF	KIM KI-WOONG SHIN KYUNGJAE	SAMSUNG SDI CO LTD	JP2015103808A JP6504649B2	2013-11-20	H01L23/29 H01L23/31 H05K3/28	C08J3/243 (EP,US) C08K5/0025 (EP,US) C08L83/04 (EP,US) C09D5/00 (US) H01L23/296 (EP,US) H05K1/0259 (EP,US) H05K1/18 (US) H05K3/0011 (US) H05K3/284 (EP) H05K3/285 (EP) C08K2003/222 (EP,US) C08K2003/2227 (EP,US) C08K2003/2231 (EP,US) C08K2003/2296 (EP,US) C08K2003/282 (EP,US) C08K2003/385 (EP,US)	2015-06-04 2019-04-24	2015-05-21	051904792

						H05K2201/0162 (EP) H05K2201/09872 (EP) H05K2201/10015 (US) H05K2201/10022 (US) H05K2201/10166 (US) H05K2201/10181 (US)			
--	--	--	--	--	--	---	--	--	--

123. CONDUCTIVE COMPOSITION, POSITIVE ELECTRODE AND LITHIUM ION SECONDARY BATTERY

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
CONDUCTIVE COMPOSITION, POSITIVE ELECTRODE AND LITHIUM ION SECONDARY BATTERY	FUKAHORI HIRONORI	SAMSUNG SDI CO LTD	JP2015115106A JP6278679B2	2013-12-09	H01M4/62 H01B1/24 H01M4/13		2015-06-22 2018-02-14	2015-06-17	053515194

124. ADHESIVE COMPOSITION, OPTICAL MEMBER AND ADHESIVE SHEET

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
ADHESIVE COMPOSITION, OPTICAL MEMBER AND ADHESIVE SHEET	OGAWA HIROSHI SUWA TATSUHIRO	SAMSUNG SDI CO LTD	JP2016035006A JP6383210B2	2014-08-01	C09J7/02 B32B27/00 B32B27/30 C09J11/06 C09J133/00 C09J163/00 G02B5/30 C09J7/30		2016-03-17 2018-08-29	2016-02-15	05357262

125. SECONDARY BATTERY

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
SECONDARY BATTERY	ROH SAE-WEON	SAMSUNG SDI CO LTD	JP2014120470A JP6448107B2	2012-12-18	H01M2/02 H01M2/04		2014-06-30 2019-01-09	2014-06-26	051130521

126. ELECTROLYTE FOR LITHIUM-ION BATTERY, AND LITHIUM-ION BATTERY INCLUDING THE SAME

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
ELECTROLYTE FOR LITHIUM-ION BATTERY, AND LITHIUM-ION BATTERY INCLUDING THE SAME	HAN MAN-SEOK KIM SUNG-SOO ROH SAE-WEON	SAMSUNG SDI CO LTD	JP2012099474A JP6054023B2	2010-11-03	H01M10/0525 H01M10/0568 H01M10/0569	H01M10/0525 (EP,CN,US) H01M10/0567 (EP,CN,US) H01M10/0569 (EP,CN,US) H01M10/4235 (EP,CN,US) H01M2300/0025 (CN,US) H01M2300/0028 (EP,CN,US) H01M2300/0034 (EP,CN,US) H01M2300/0045 (EP,CN,US) Y02E60/10 (US)	2012-05-24 2016-12-27	2012-05-03	045554426

127. SECONDARY PARTICLE AND LITHIUM BATTERY COMPRISING THE SAME

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
SECONDARY PARTICLE AND LITHIUM BATTERY COMPRISING THE SAME	CHUNG GU- HYUN JOO GYU- NAM KIM BEOM-	SAMSUNG SDI CO LTD	JP2011165659A JP5641650B2	2010-02-09	C01B31/04 H01M10/052 H01M10/0566	H01M10/0525 (EP,US) H01M4/131	2011-08-25 2014-12-17	2011-08-10	044042625

	KWON KIM DEOK-HYUN KIM JAE MYUNG KIM TAE-SIG KIM YOUNG-SU LEE JONG-HEE LEE SO-RA SHIN CHANG-SU TO GISHO YU YONG- MI				H01M4/36 H01M4/485 H01M4/505 H01M4/525 H01M4/587 H01M4/62	(EP,US) H01M4/133 (EP,US) H01M4/1393 (EP,US) H01M4/505 (EP,US) H01M4/525 (EP,US) H01M2004/021 (EP,US) Y02E60/10 (US)			
--	--	--	--	--	--	---	--	--	--

128. ADHESIVE FOR OPTICAL FILM, ADHESIVE LAYER FOR OPTICAL FILM, OPTICAL MEMBER AND IMAGE DISPLAY DEVICE

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
ADHESIVE FOR OPTICAL FILM, ADHESIVE LAYER FOR OPTICAL FILM, OPTICAL MEMBER AND IMAGE DISPLAY DEVICE	INUI KUNIHICO OGAWA HIROSHI SUWA TATSUHIRO	SAMSUNG SDI CO LTD	JP2016108555A	2014-11-28	B32B27/00 C09J11/06 C09J133/06 C09J133/14 C09J7/00 C09J7/02 G02F1/1335		2016-06-20	2016-06-08	056121902

129. POLARIZING PLATE AND LIQUID CRYSTAL DISPLAY INCLUDING THE SAME

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
POLARIZING PLATE AND LIQUID CRYSTAL DISPLAY INCLUDING THE SAME	JU YOUNG HYUN LEE JUNG HO LEE SEONG- HOON OH YOUNG	SAMSUNG SDI CO LTD	JP2016161943A	2015-02-27	G02B5/00 G02B5/02 G02B5/30 G02F1/1335	G02B1/14 (EP,US) G02B5/305 (EP,CN,US) G02B5/3083 (EP,US) G02F1/133528 (EP,CN,US) G02F2001/133507 (EP)	2016-09-05	2016-09-01	056798791

130. METHOD FOR PREPARING TRANSPARENT CONDUCTOR, PRESSING ROLL USED FOR THE SAME, TRANSPARENT CONDUCTOR P REPAIRED BY METHOD FOR PREPARING TRANSPARENT CONDUCTOR, AND DISPLAY APPARATUS COMPRISING THE SAME

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
METHOD FOR PREPARING TRANSPARENT CONDUCTOR, PRESSING ROLL USED FOR THE SAME, TRANSPARENT CONDUCTOR PREPARED BY METHOD FOR PREPARING TRANSPARENT CONDUCTOR, AND DISPLAY APPARATUS COMPRISING THE SAME	HWANG OH HYEON KANG KYOUNG KU KOO YOUNG KWON SHIN DONG- MYUNG	SAMSUNG SDI CO LTD	JP2015138557A	2014-01-22	G06F3/041 G06F3/044 H01B13/00 H01B5/14	B32B15/06 (US) B32B37/0053 (EP,US) H01B1/22 (EP,KR,US) H01B13/00 (KR) H01B5/14 (KR) H01L29/0665 (KR) H01L31/022425 (KR) H01L31/022466 (KR) B32B2262/103 (US) B32B2307/202 (EP,US) B32B2309/12 (EP,US) B32B2309/14 (EP) B32B2457/208 (EP,US) B32B37/12 (EP) Y10T428/31678 (EP,US)	2015-07-30	2015-07-22	053545386

131. SECONDARY BATTERY

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
SECONDARY BATTERY	KOO MIN-SEOK KWAK YUN-JUNG LEE CHI-YOUNG LIU XIRUN OH JEONG-WON	SAMSUNG SDI CO LTD	JP2014170735A JP6373589B2	2013-02-28	H01M10/60 H01M2/26 H01M2/34 H01M10/613 H01M10/654 H01M10/6551 H01M10/6553 H01M10/6554	H01M10/613 (EP,KR,US) H01M10/647 (KR) H01M10/654 (EP,KR,US) H01M10/6551 (EP,KR,US) H01M10/6553 (EP,KR,US) H01M10/6554 (EP,KR,US) H01M2/263 (EP,CN,KR,US) H01M2/348 (EP,CN,KR,US) H01M10/647 (EP,US) H01M2200/103 (EP,CN,KR,US)	2014-09-18 2018-08-15	2014-08-28	049000860

132. POSITIVE ELECTRODE ACTIVE MATERIAL FOR LITHIUM SECONDARY BATTERY, ITS MANUFACTURING METHOD, AND LITHIUM SECONDARY BATTERY

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
POSITIVE ELECTRODE ACTIVE MATERIAL FOR LITHIUM SECONDARY BATTERY, ITS MANUFACTURING METHOD, AND LITHIUM SECONDARY BATTERY	BOKU DOKEI KIM JI-HYON KIM KYON-HYON KIM MIN-HAN KWON SEON-YEONG SONG YU-MI	SAMSUNG SDI CO LTD	JP2012004109A JP5731276B2	2010-06-13	H01M10/0566 C01G53/00 H01M10/052 H01M4/505 H01M4/525 H01M10/0563	C01G53/44 (KR) H01M10/052 (KR) H01M4/505 (KR) H01M4/525 (KR) C01P2004/64 (KR) C01P2004/82 (KR) C01P2006/40 (KR) H01M4/131 (KR) Y02E60/10 (KR)	2012-01-05 2015-06-10	2011-12-21	045503305

133. RECHARGEABLE LITHIUM ION BATTERY

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
RECHARGEABLE LITHIUM ION BATTERY	NAKANO MASATSUGU NOMURA KEISUKE TAKEI YUKI	SAMSUNG SDI CO LTD	JP2015084303A	2013-10-25	C01G53/00 H01M4/505 H01M4/525	C01G53/44 (KR) H01M10/0525 (KR) H01M4/366 (KR) H01M4/505 (KR) H01M4/525 (KR) C01P2004/82 (KR) C01P2006/40 (KR) Y02E60/10 (KR)	2015-04-30	2015-04-30	053047810

134. LITHIUM ION SECONDARY BATTERY, AND METHOD FOR MANUFACTURING LITHIUM ION SECONDARY BATTERY

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
LITHIUM ION SECONDARY BATTERY, AND METHOD FOR MANUFACTURING LITHIUM ION SECONDARY BATTERY	TAKASE HIROSHIGE YOKOTSUJI HOKUTO	SAMSUNG SDI CO LTD	JP2015088261A JP6445758B2	2013-10-29	H01M10/052 H01M10/0567 H01M10/0569 H01M10/058 H01M4/36 H01M4/38 H01M4/48 H01M4/587		2015-05-07 2018-12-26	2015-05-07	053050859

135. ELECTRIC POWER ASSIST UNIT AND ELECTRIC POWER ASSIST SYSTEM

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
ELECTRIC POWER ASSIST UNIT AND ELECTRIC POWER ASSIST SYSTEM	ISHIKAWA TETSUHIRO OKUI YOSHIKI TANITSU MAKOTO TATSUTA TOSHIKI	SAMSUNG SDI CO LTD	JP2016005358A JP6448225B2	2014-06-17	H02J3/32 H02J3/46 H01M10/44 H02J15/00 H02J7/00 H02J7/02 H02J7/34 H02J7/35 H02J3/38	H02J3/386 (KR) H02J7/14 (KR) H02J9/00 (KR) Y02E10/76 (EP) Y02P90/50 (EP) Y02T10/92 (EP)	2016-01-12 2019-01-09	2015-12-28	055084956

136. BATTERY MODULE

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
BATTERY MODULE	BYUN SANG-WON [kr] HAN MIN-YEOL [kr] KIM JIN-SEOP [kr] YOON SU-JIN [kr]	SAMSUNG SDI CO LTD [kr]	IN322MU2014A	2013-02-14	H02J7/14	H01M10/0413 (EP,CN,KR) H01M10/0431 (KR) H01M10/42 (EP,CN,KR) H01M2/1077 (EP,CN,KR) H01M2/1241 (EP,CN,KR) H01M2/204 (KR) H01M2/345 (EP,CN,KR,US) H01M10/0431 (EP,CN) H01M2200/20 (EP,CN,KR) H01M2220/30 (KR)	2015-09-25	2014-08-14	048998511

137. LITHIUM SECONDARY BATTERY

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
LITHIUM SECONDARY BATTERY	KIM SEUNG-MO	SAMSUNG SDI CO LTD	JP2014225430A JP6567801B2	2013-05-14	H01M10/052 H01M10/0569 H01M4/505 H01M4/525	C01G53/50 (EP,US) H01M10/052 (EP,CN,US) H01M10/0525 (EP,CN,US) H01M10/0569 (EP,CN,US) H01M4/505 (EP,CN,US) H01M4/525 (EP,CN,US) H01M2300/004 (EP,CN,US)	2014-12-04 2019-08-28	2014-11-19	049301379

138. SECONDARY BATTERY

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
SECONDARY BATTERY	KIM BO-HYUN KIM HYUN CHUL KIM TAE-SIG SOH HYUN YI JONG-KI	SAMSUNG SDI CO LTD	JP2015103521A JP6494971B2	2013-11-20	H01M2/26 H01M2/34	H01M10/486 (KR) H01M2/06 (KR) H01M2/26 (EP,CN,US) H01M2/263 (KR) H01M2/34 (EP,CN,US) H01M2/348 (KR) H01M2200/103 (EP,CN,KR,US) H01M2220/20 (EP,CN,KR,US)	2015-06-04 2019-04-03	2015-05-21	050639351

139. SECONDARY BATTERY HAVING MINUTE CURRENT TRANSPORTING MEMBER									
Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
SECONDARY BATTERY HAVING MINUTE CURRENT TRANSPORTING MEMBER	BYUN SANG-WON	SAMSUNG SDI CO LTD	JP2014212099A JP6345409B2	2013-04-18	H01M2/30 H01M2/34 H01M2/04 H01M2/12	H01M2/022 (CN) H01M2/0237 (CN) H01M2/0408 (EP,CN,KR,US) H01M2/043 (EP,CN,KR,US) H01M2/046 (EP,CN,KR,US) H01M2/1235 (CN) H01M2/1241 (EP,KR,US) H01M2/1294 (CN) H01M2/263 (KR) H01M2/34 (EP,US) H01M2/345 (EP,CN,KR,US) H01M2/348 (EP,KR,US) H01M2/263 (EP,US) H01M2200/00 (EP,US) H01M2200/106 (EP,CN,KR,US) H01M2200/20 (EP,CN,KR,US)	2014-11-13 2018-06-20	2014-10-22	049713004
140. BATTERY MODULE									
Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
BATTERY MODULE	CHO JUN WOO KIM TAE-YONG LEE TSUNG-HAN PARK SEONG-JOON PARK SHI-DONG	SAMSUNG SDI CO LTD	JP2014229615A JP6441589B2	2013-05-21	H01M2/10 H01M2/20 H01M2/30 H01M2/34	H01M2/20 (EP,CN,US) H01M2/206 (EP,CN,US) H01M2/305 (EP,CN,US) H01M2/1077 (EP,CN,US) H01M2220/20 (EP,CN,US)	2014-12-08 2018-12-19	2014-11-27	050732986
141. SEPARATOR FOR BATTERY, THE BATTERY, AND METHOD FOR PREPARING GRAFT COPOLYMER FOR BINDER									
Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
SEPARATOR FOR BATTERY, THE BATTERY, AND METHOD FOR PREPARING GRAFT COPOLYMER FOR BINDER	ENDO TAKAHIRO FUKUCHI IWAO NAM JUNG-HYUN PARK JONG-HWAN PARK JUN	SAMSUNG SDI CO LTD	JP2015106564A JP6559942B2	2013-12-02	H01M2/16	C08F259/08 (EP,US) H01M2/166 (EP,US) H01M2/1686 (EP,US) H01M10/052 (EP,US) C08F259/08, C08F220/06, INV (EP,US)	2015-06-08 2019-08-14	2015-06-04	053266068
142. POSITIVE ACTIVE MATERIAL FOR RECHARGEABLE LITHIUM BATTERY, METHOD OF PREPARING THE SAME, AND RECHARGEABLE LITHIUM BATTERY INCLUDING THE SAME									
Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
POSITIVE ACTIVE MATERIAL FOR	OH EUN-OK	SAMSUNG SDI CO LTD		2014-08-11	C01G53/00 H01M4/36	C01B25/45 (EP,US)		2016-02-11	053794114

RECHARGEABLE LITHIUM BATTERY, METHOD OF PREPARING THE SAME, AND RECHARGEABLE LITHIUM BATTERY INCLUDING THE SAME			JP2016039134A JP6621131B2		H01M4/525 H01M4/505	H01M10/0525 (CN) H01M4/139 (CN) H01M4/366 (EP,US) H01M4/525 (EP,US) H01M4/5825 (CN) H01M4/62 (EP,US) H01M10/052 (EP,US) H01M2004/028 (EP,US)	2016-03-22 2019-12-18		
---	--	--	------------------------------	--	------------------------	--	--------------------------	--	--

143. ADDITIVE FOR ELECTROLYTE OF LITHIUM BATTERY, ORGANIC ELECTROLYTIC SOLUTION, AND LITHIUM BATTERY

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
ADDITIVE FOR ELECTROLYTE OF LITHIUM BATTERY, ORGANIC ELECTROLYTIC SOLUTION, AND LITHIUM BATTERY	CHO IN HAENG KHASANOV MAKHMUT KIM SANG-HOON LEE HA-RIM SHATUNOV PAVEL ALEXANDROVICH SHIN WOO CHEOL YANAGI SADAKORE	SAMSUNG SDI CO LTD	JP2014216317A JP6578085B2	2013-04-25	C07C255/09 C07C255/32 C07C317/44 C07D333/24 C07F9/40 H01M10/052 H01M10/0567 H01M6/16	H01M10/0567 (EP,US) H01M10/052 (EP,US) H01M2300/0025 (EP,US) H01M4/587 (EP,US) H01M4/625 (EP,US) Y02E60/10 (US)	2014-11-17 2019-09-18	2014-10-29	049955257

144. CURVED SECONDARY BATTERY

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
CURVED SECONDARY BATTERY	SUNG JAE-IL	SAMSUNG SDI CO LTD	JP2015138779A JP6494080B2	2014-01-20	H01M10/04 H01M2/02 H01M2/04 H01M2/06 H01M2/26 H01M2/30 H01M2/34	A47J27/16 (KR) H01M2/0202 (EP,US) H01M2/0404 (EP,CN,US) H01M2/0456 (EP,CN,US) H01M2/30 (US) A47J36/00 (KR) H01M10/052 (EP,CN,US) H01M10/058 (EP,CN,US) H01M2002/0205 (EP,CN,US) H01M2220/30 (EP,CN,US)	2015-07-30 2019-04-03	2015-07-22	051951690

145. BATTERY PACK, ENERGY STORAGE SYSTEM HAVING BATTERY PACK, CHARGING METHOD FOR BATTERY PACK

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
BATTERY PACK, ENERGY STORAGE SYSTEM HAVING BATTERY PACK, CHARGING METHOD FOR BATTERY PACK	YUN HAN-SEOK	SAMSUNG SDI CO LTD	JP2015082967A JP6445828B2	2013-10-22	H01M10/42 H01M10/44 H01M10/48 H02J7/10	H01M10/441 (KR) H01M10/443 (EP,KR,US) H01M10/46 (EP,KR,US) H01M2/1016 (KR) H02H7/18 (CN) H02J3/32 (CN) H02J7/00 (US) H02J7/0036 (CN) H02J7/0068 (KR,US) H02J7/007 (KR)	2015-04-27 2018-12-26	2015-04-23	050389354

						H02J7/00712 (EP) H02J7/007192 (KR) H02J7/0077 (US) H02J7/0091 (EP,CN,US) H01M10/441 (EP,US) H01M2/1016 (EP,US) H01M2010/4271 (EP,KR,US) H01M2010/4278 (EP,KR,US) H02J7/007 (US) Y02E60/60 (KR)			
--	--	--	--	--	--	--	--	--	--

146. SECONDARY BATTERY

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
SECONDARY BATTERY	KWON MIN-HYEONG SEO YONG-CHUL	SAMSUNG SDI CO LTD	JP2014203820A JP6697836B2	2013-04-01	H01M2/26 H01M2/30 H01M2/34	H01M10/0431 (KR,US) H01M2/06 (KR,US) H01M2/1016 (KR,US) H01M2/263 (KR) H01M2/34 (US) H01M2/348 (EP,CN,KR,US) H01M4/70 (EP,CN,KR,US) H01M2200/103 (EP,CN,KR,US) Y02E60/10 (US)	2014-10-27 2020-05-27	2014-10-02	049322257

147. POSITIVE ELECTRODE ACTIVE MATERIAL FOR LITHIUM SECONDARY BATTERIES, METHOD FOR MANUFACTURING THE SAME, POSITIVE ELECTRODE FOR LITHIUM SECONDARY BATTERIES INCLUDING THE SAME, AND LITHIUM SECONDARY BATTERY

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
POSITIVE ELECTRODE ACTIVE MATERIAL FOR LITHIUM SECONDARY BATTERIES, METHOD FOR MANUFACTURING THE SAME, POSITIVE ELECTRODE FOR LITHIUM SECONDARY BATTERIES INCLUDING THE SAME, AND LITHIUM SECONDARY BATTERY	ANDREI KAPYLOU KANG SUN-HO KIM CHANG-WOOK LIU RONGZAN PARK JUN-SEOK SONG JAE-HYOK YU BYONG-YONG	SAMSUNG SDI CO LTD	JP2015015244A JP6462250B2	2013-07-03	H01M10/052 H01M4/505 H01M4/525 H01M10/0566	C01D15/02 (US) C01D15/04 (US) C01G53/50 (EP) H01M10/0525 (CN) H01M4/131 (CN) H01M4/1391 (CN) H01M4/485 (CN) H01M4/505 (EP,CN,US) H01M4/525 (EP,CN,US) H01M4/582 (US) C01P2002/50 (EP) C01P2002/52 (EP) C01P2002/72 (EP) C01P2004/03 (EP) C01P2004/32 (EP) H01M10/0525 (EP,US) H01M4/131 (EP) H01M4/1315 (EP,CN) H01M4/13915 (CN)	2015-01-22 2019-01-30	2015-01-07	051162503

148. METHOD OF MANUFACTURING BLACK COLUMN SPACER, BLACK COLUMN SPACER, AND COLOR FILTER

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
METHOD OF MANUFACTURING BLACK COLUMN SPACER, BLACK COLUMN SPACER, AND COLOR FILTER	AHN KYUNG-WON CHOI HYUN-MOO CHOI SEUNG-JIB KIM JI-HYE LEE JUN HO YU ARUM	SAMSUNG SDI CO LTD	JP2015191234A JP6527319B2	2014-03-27	G02B5/20 G02F1/1335 G02F1/1339 G03F1/00 G03F7/004 G03F7/033 G03F7/038 G03F7/095 G03F7/20 G03F7/40	G02B5/003 (EP) G02B5/20 (US) G02B5/223 (EP) G03F7/0007 (EP,US) G03F7/027 (EP) G03F7/032 (EP) G03F7/033 (EP) G03F7/095 (EP) G03F7/105 (EP)	2015-11-02 2019-06-05	2014-12-19	052679467
149. BATTERY SYSTEM AND ENERGY STORAGE SYSTEM									
BATTERY SYSTEM AND ENERGY STORAGE SYSTEM	YI HANSHUO	SAMSUNG SDI CO LTD	JP2014060912A JP6245735B2	2012-09-14	H02J13/00 H02J7/00	H01M10/482 (US) H02J7/34 (EP,US) Y02E60/60 (US)	2014-04-03 2017-12-13	2014-03-20	050274786
150. POLARIZING PLATE AND IMAGE DISPLAY DEVICE HAVING THE SAME									
POLARIZING PLATE AND IMAGE DISPLAY DEVICE HAVING THE SAME	SUWA TATSUHIRO	SAMSUNG SDI CO LTD	JP2016161794A JP6608150B2	2015-03-03	G02B5/30 G02F1/1335		2016-09-05 2019-11-20	2016-09-05	056846856
151. CELL BALANCING CIRCUIT AND CELL BALANCING METHOD USING THE SAME									
CELL BALANCING CIRCUIT AND CELL BALANCING METHOD USING THE SAME	KIM TAE-JIN	SAMSUNG SDI CO LTD	JP2014054168A JP6332924B2	2012-09-06	H01M10/44 H02J7/02	H02J7/0019 (EP,US) H02J7/0068 (US) H02J7/007 (US) G01R31/396 (US) H02J7/0014 (US) H02J7/0021 (US)	2014-03-20 2018-05-30	2014-03-06	049111020
152. BATTERY PACK									
BATTERY PACK	BAEK MOORYONG	SAMSUNG SDI CO LTD	JP2013152958A JP5649245B2	2009-01-13	H01M2/10	H01M2/105 (EP,US) H01M2/1055 (EP,US)	2013-08-08 2015-01-07	2010-07-14	042078049
153. SECONDARY BATTERY									
SECONDARY BATTERY	JUN JINHA MAENN SOO-YOUN	SAMSUNG SDI CO LTD	JP2013232432A JP5728051B2	2008-06-23	H01M10/04 H01M10/0587 H01M2/02 H01M2/04 H01M2/20 H01M2/26 H01M2/34	H01M2/0404 (EP) H01M2/0473 (EP) H01M10/052 (EP)	2013-11-14 2015-06-03	2009-12-24	041059567
154. HARDMASK COMPOSITION, HARDMASK LAYER, AND METHOD OF FORMING PATTERNS									
HARDMASK COMPOSITION, HARDMASK LAYER, AND METHOD OF FORMING PATTERNS	KIM SEUNG-HYUN KIM SUNGHWAN LIM JAEBUM PARK YUSHIN YANG SUNYOUNG	SAMSUNG SDI CO LTD	JP2020007544A	2018-07-11	C08G61/10 C08L65/00 G03F7/11 G03F7/40	C08G61/10 (CN) C08L65/02 (US) G03F7/0035 (CN) G03F7/094 (EP) G03F7/11 (CN,US) H01L21/0271 (EP) H01L21/0276 (US) H01L21/32139 (US)	2020-01-16	2020-01-16	069138699

						(EP,US) C08K7/14, C08L77/06, INV (EP,US)			
158. SECONDARY BATTERY SEPARATOR AND LITHIUM SECONDARY BATTERY INCLUDING THE SAME									
Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
SECONDARY BATTERY SEPARATOR AND LITHIUM SECONDARY BATTERY INCLUDING THE SAME	CHOI HYEON SUN KIM KEEWOOK PARK JIN KYU	SAMSUNG SDI CO LTD	JP2017117788A	2015-12-23	H01M2/16	C08F251/02 (EP,US) C08J9/0066 (US) C08J9/28 (US) C08K3/22 (EP,US) H01M10/052 (EP,CN,US) H01M10/0525 (US) H01M2/164 (CN) H01M2/166 (EP,US) H01M2/1686 (EP,US) H01M2/18 (CN) C08J2201/0502 (US) C08J2351/02 (US) C08K2003/2227 (EP,US) H01M2220/20 (US) Y02E60/10 (EP) Y02T10/70 (EP,US) C08F251/02, C08F214/22, INV (EP,US) C08F251/02, C08F214/28, INV (EP,US) C08F251/02, C08F220/06, INV (EP,US) C08F251/02, C08F220/20, INV (EP,US) C08K2003/2227, C08L51/02, ADD (EP,US) C08K3/22, C08L51/02, INV (EP,US)	2017-06-29	2017-06-29	059087292
159. NEGATIVE ELECTRODE ACTIVE MATERIAL LAYER FOR LITHIUM ION SECONDARY BATTERY, LITHIUM ION SECONDARY BATTERY, NEGATIVE ELECTRODE MIXTURE FOR LITHIUM ION SECONDARY BATTERY, AND METHOD FOR PRODUCING NEGATIVE ELECTRODE ACTIVE MATERIAL LAYER FOR LITHIUM ION SECONDARY BATTERY									
Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
NEGATIVE ELECTRODE ACTIVE MATERIAL LAYER FOR LITHIUM ION SECONDARY BATTERY, LITHIUM ION SECONDARY BATTERY, NEGATIVE ELECTRODE MIXTURE FOR LITHIUM ION SECONDARY BATTERY, AND METHOD FOR	FUKAHORI HIRONORI	SAMSUNG SDI CO LTD	JP2014120459A JP6267423B2	2012-12-19	H01M4/133 H01M4/134 H01M4/1393 H01M4/1395 H01M4/36 H01M4/62	H01M10/0525 (KR) H01M4/0471 (KR) H01M4/134 (KR) H01M4/1395 (KR) H01M4/622 (KR) Y02P70/50 (KR)	2014-06-30 2018-01-24	2014-06-27	051130711

PRODUCING NEGATIVE ELECTRODE ACTIVE MATERIAL LAYER FOR LITHIUM ION SECONDARY BATTERY									
--	--	--	--	--	--	--	--	--	--

160. ADHESIVE COMPOSITION FOR OPTICAL FILMS, AND ADHESIVE LAYER, OPTICAL MEMBER, AND IMAGE DISPLAY DEVICE PREPARED THEREWITH

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
ADHESIVE COMPOSITION FOR OPTICAL FILMS, AND ADHESIVE LAYER, OPTICAL MEMBER, AND IMAGE DISPLAY DEVICE PREPARED THEREWITH	INUI KUNIHIRO OGAWA HIROSHI SUWA TATSUHIRO TAKAHASHI TOSHIYUKI	SAMSUNG SDI CO LTD	JP2018024755A	2016-08-09	C08F220/06 C08F220/12 C08F220/26 C09J11/06 C09J133/04 C09J133/14 C09J7/00 G02B5/30 G02F1/1335 G02F1/13363	C09J11/06 (KR) C09J133/08 (KR) C09J133/10 (KR) C09J7/20 (KR) G02B5/20 (KR) G02F1/133528 (KR)	2018-02-15	2018-02-15	061195168

161. POLYMER, ORGANIC LAYER COMPOSITION, AND METHOD OF FORMING PATTERNS

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
POLYMER, ORGANIC LAYER COMPOSITION, AND METHOD OF FORMING PATTERNS	DOMINEA RATHWELL JUNG HYEON-IL KWON HYO-YOUNG NAMGUNG RAN	SAMSUNG SDI CO LTD	JP2017078165A	2015-10-19	C08G61/12 G03F7/11 G03F7/16 G03F7/40 H01L21/027	C08G14/02 (EP,CN,US) C08G14/04 (EP,CN,US) C08G14/06 (EP,CN,US) C08G73/0672 (EP,US) C08G73/18 (EP,US) C08G73/22 (EP,US) C08G75/32 (US) C09D161/34 (EP,CN,US) C09D179/04 (EP,US) G03F7/0035 (CN) G03F7/0392 (US) G03F7/11 (EP,US) G03F7/168 (US) G03F7/20 (US) G03F7/30 (US) H01L21/02532 (US) H01L21/02623 (US) H01L21/0274 (US) H01L21/0276 (US) H01L21/0332 (EP,US) H01L21/30604 (US) H01L21/3081 (US) H01L21/3085 (US) H01L21/324 (US) G03F7/0035 (EP,US)	2017-04-27	2017-04-20	058524299

162. RECHARGEABLE BATTERY

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
RECHARGEABLE BATTERY	HAN JU-HYEONG HONG SEOK-HUN	SAMSUNG SDI CO LTD		2015-03-13	H01M10/04 H01M2/02	H01M10/0413 (CN)		2016-09-14	055527376

	SONG HYUN- HWA SUH JUN- WON YI JEONG- DOO		JP2016171060A JP6690831B2		H01M2/06 H01M2/16 H01M2/18 H01M2/26 H01M2/30	H01M10/0436 (EP,KR,US) H01M10/0585 (KR) H01M2/021 (EP,KR,US) H01M2/0212 (EP,US) H01M2/026 (US) H01M2/0275 (EP,KR,US) H01M2/0287 (EP,KR,US) H01M2/1673 (US) H01M2/168 (EP,US) H01M2/18 (EP,KR,US) H01M2/26 (EP,KR,US) H01M4/0404 (CN) H01M4/70 (EP,US) H01M10/052 (KR) H01M10/0585 (EP,US) H01M2/0217 (EP,US) H01M2220/30 (KR,US) Y02E60/12 (KR)	2016-09-23 2020-04-28		
--	--	--	------------------------------	--	--	--	--------------------------	--	--

163. COMPOSITION FOR ENCAPSULATION OF ORGANIC LIGHT EMITTING ELEMENT, AND ORGANIC LIGHT EMITTING DISPLAY

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
COMPOSITION FOR ENCAPSULATION OF ORGANIC LIGHT EMITTING ELEMENT, AND ORGANIC LIGHT EMITTING DISPLAY	HA KYOUNG JIN KO SUNG MIN LEE CHANG-MIN LEE JI YEON NAM SEONG RYONG RYU KANSEI WOO CHANG SOO	SAMSUNG SDI CO LTD	JP2015189977A	2014-03-28	C08F230/08 H01L51/50 H05B33/04		2015-11-02	2015-10-12	054347113

164. WOUND ELECTRODE ELEMENT FOR NONAQUEOUS ELECTROLYTE SECONDARY BATTERY, NONAQUEOUS ELECTROLYTE SECONDARY BATTERY USING THE SAME, AND METHOD FOR MANUFACTURING WOUND ELECTRODE ELEMENT FOR NONAQUEOUS ELECTROLYTE SECONDARY BATTERY

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
WOUND ELECTRODE ELEMENT FOR NONAQUEOUS ELECTROLYTE SECONDARY BATTERY, NONAQUEOUS ELECTROLYTE SECONDARY BATTERY USING THE SAME, AND METHOD FOR MANUFACTURING WOUND ELECTRODE ELEMENT FOR NONAQUEOUS ELECTROLYTE SECONDARY BATTERY	HOSHIBA HIROHARU	SAMSUNG SDI CO LTD	JP2016119221A JP6399921B2	2014-12-22	H01M10/052 H01M10/0587 H01M2/16 H01M4/13 H01M4/62	H01M10/0431 (EP,US) H01M2/168 (EP) H01M4/623 (EP) H01M10/0525 (EP,US) H01M10/0587 (EP) H01M2/1686 (EP)	2016-06-30 2018-10-03	2016-06-16	056291492

165. WOUND ELECTRODE ELEMENT FOR NONAQUEOUS ELECTROLYTE SECONDARY BATTERY, NONAQUEOUS ELECTROLYTE SECONDARY BATTERY USING THE SAME, AND METHOD FOR MANUFACTURING WOUND ELECTRODE ELEMENT FOR NONAQUEOUS ELECTROLYTE SECONDARY BATTERY

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
WOUND ELECTRODE ELEMENT FOR NONAQUEOUS ELECTROLYTE SECONDARY BATTERY, NONAQUEOUS ELECTROLYTE SECONDARY BATTERY USING THE SAME, AND METHOD FOR MANUFACTURING WOUND ELECTRODE ELEMENT FOR NONAQUEOUS ELECTROLYTE SECONDARY BATTERY	HOSHIBA HIROHARU	SAMSUNG SDI CO LTD	JP2016119222A JP6399922B2	2014-12-22	H01M10/052 H01M10/0587 H01M2/16 H01M4/13 H01M4/62		2016-06-30 2018-10-03	2016-06-30	056244396

166. LITHIUM SECONDARY BATTERY

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
LITHIUM SECONDARY BATTERY	KIM CHEON-SOO	SAMSUNG SDI CO LTD	JP2013084598A JP6071389B2	2011-10-11	H01M10/056 H01M10/052 H01M10/0565 H01M10/0569 H01M2/16	H01M10/052 (EP,US) H01M10/056 (EP,US) H01M10/0569 (EP,US) H01M2/16 (EP,US) H01M2/16 (EP,US) H01M2/1653 (EP,US) H01M2/1686 (EP,US) H01M4/13 (EP,US) Y02E60/10 (US)	2013-05-09 2017-02-01	2013-04-11	046466309

167. COMPOSITION FOR FORMING SOLAR CELL ELECTRODE AND ELECTRODE MANUFACTURED USING THE SAME

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
COMPOSITION FOR FORMING SOLAR CELL ELECTRODE AND ELECTRODE MANUFACTURED USING THE SAME	JUNG SEOK HYUN KIM DONG- JOEK KIM JU HEE KIM MIN JAE KIM SEAK CHEOL LEE JE IL PARK MIN- SU YANG SANG HYUN	SAMSUNG SDI CO LTD	JP2016127276A	2014-12-30	H01B1/22 H01L31/0224	H01B1/22 (EP,CN,US) H01L31/0224 (CN,KR) H01L31/022425 (EP,US) H01L31/0232 (KR) Y02E10/50 (EP,US)	2016-07-11	2016-06-30	056165217

168. BINDER FOR SECONDARY BATTERY, SEPARATOR FOR SECONDARY BATTERY, AND SECONDARY BATTERY

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
BINDER FOR SECONDARY BATTERY, SEPARATOR FOR SECONDARY BATTERY, AND SECONDARY BATTERY	FUKUCHI IWAO	SAMSUNG SDI CO LTD	JP2016126856A JP6678389B2	2014-12-26	C09D7/12 C08K3/00 C08L33/00 C09D133/00 C09D151/08 H01M2/16		2016-07-11 2020-04-08	2016-07-06	056357059

169. SECONDARY BATTERY

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
-------	-----------	------------	--------------------	-------------------	-----	-----	------------------	----------------------	---------------

SECONDARY BATTERY	AHN CHANG-BUM	SAMSUNG SDI CO LTD	JP2013041824A JP6273079B2	2011-08-18	H01M2/04 H01M10/04 H01M2/02 H01M2/34	H01M10/0431 (EP) H01M10/4235 (EP)	2013-02-28 2018-01-31	2013-02-20	047002597
170. BATTERY PROTECTION CIRCUIT AND BATTERY PACK HAVING THE SAME									
Title BATTERY PROTECTION CIRCUIT AND BATTERY PACK HAVING THE SAME	Inventors JIN KYONG PIL	Applicants SAMSUNG SDI CO LTD	Publication number JP2019134661A JP6709560B2	Earliest priority 2018-02-02	IPC H01M10/42 H02H7/18 H02J7/00	CPC H01M10/425 (US) H02H7/18 (CN) H02J7/0029 (US) H02J7/0031 (EP,US) H01M2010/4271 (US) H02J7/00302 (US) H02J7/00304 (EP,US) H02J7/00306 (US)	Publication date 2019-08-08 2020-06-17	Earliest publication 2019-08-07	Family number 065276058
171. SECONDARY BATTERY									
Title SECONDARY BATTERY	Inventors AHN CHANG- BOM	Applicants SAMSUNG SDI CO LTD	Publication number JP2012004122A JP5679196B2	Earliest priority 2010-06-21	IPC H01M2/30 H01M2/02 H01M2/08 H01M2/06	CPC H01M2/021 (EP) H01M2/0277 (EP) H01M2/0285 (EP) H01M2/0404 (EP) H01M2/0469 (EP) H01M2/0482 (EP) H01M2/0486 (EP) H01M2/0287 (EP)	Publication date 2012-01-05 2015-03-04	Earliest publication 2011-12-21	Family number 044653711
172. RECHARGEABLE LITHIUM BATTERY									
Title RECHARGEABLE LITHIUM BATTERY	Inventors CHOI YEON-JOO [kr] LEE EON-MI [kr] NAM JUNG- HYUN [kr] PARK JONG-HWAN [kr] SEOK HOON [kr]	Applicants SAMSUNG SDI CO LTD [kr]	Publication number IN2377MU2014A	Earliest priority 2013-08-14	IPC H01M10/052 H01M10/056	CPC H01M10/052 (KR) H01M10/0525 (KR) H01M2/14 (KR) H01M2/1646 (KR) H01M2/1653 (KR) H01M2/1686 (KR) H01M4/62 (KR) H01M4/622 (KR)	Publication date 2015-10-09	Earliest publication 2015-02-23	Family number 052578984
173. POSITIVE ELECTRODE FOR NONAQUEOUS ELECTROLYTE SECONDARY BATTERY AND NONAQUEOUS ELECTROLYTE SECONDARY BATTERY									
Title POSITIVE ELECTRODE FOR NONAQUEOUS ELECTROLYTE SECONDARY BATTERY AND NONAQUEOUS ELECTROLYTE SECONDARY BATTERY	Inventors FUKATANI TOMOYUKI HOSHIBA HIROHARU TAKEI YUKI	Applicants SAMSUNG SDI CO LTD	Publication number JP2018125126A	Earliest priority 2017-01-31	IPC H01M4/131 H01M4/36 H01M4/505 H01M4/525 H01M4/62	CPC	Publication date 2018-08-09	Earliest publication 2018-08-09	Family number 063110360
174. SOLAR CELL									
Title SOLAR CELL	Inventors MINAMI MASAYOSHI YANG JUNGYUP	Applicants SAMSUNG SDI CO LTD	Publication number JP2014225666A	Earliest priority 2013-05-14	IPC H01L31/0749	CPC H01L31/02008 (EP,CN) H01L31/022425 (EP,CN) H01L31/0445 (EP) H01L31/05 (US) Y02E10/541 (EP)	Publication date 2014-12-04	Earliest publication 2014-11-19	Family number 049956100
175. SEPARATOR INCLUDING POROUS ADHESIVE LAYER AND ELECTROCHEMICAL BATTERY INCLUDING THE SAME									

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
SEPARATOR INCLUDING POROUS ADHESIVE LAYER AND ELECTROCHEMICAL BATTERY INCLUDING THE SAME	BAE IMHYUCK CHUN JIHYUN HONG DAE HYUN KANG SEYEONG KIM BYEONG-SOO LEE SANG-HO PARK JIN SEONG	SAMSUNG SDI CO LTD	JP2017117784A	2015-12-22	H01M10/052 H01M10/0566 H01M2/16	C09D127/16 (EP,US) H01M10/049 (EP) H01M10/0525 (CN) H01M2/1653 (EP,CN,US) H01M2/166 (EP) H01M2/1686 (EP,US) C08L2205/025 (EP) H01M10/0525 (EP,US) H01M10/058 (EP) C09D127/16, C08K3/22, C08L27/16, INV (EP)	2017-06-29	2017-06-22	059066386

176. POSITIVE ELECTRODE ACTIVE MATERIAL, NONAQUEOUS SECONDARY BATTERY, AND METHOD FOR MANUFACTURING POSITIVE ELECTRODE ACTIVE MATERIAL

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
POSITIVE ELECTRODE ACTIVE MATERIAL, NONAQUEOUS SECONDARY BATTERY, AND METHOD FOR MANUFACTURING POSITIVE ELECTRODE ACTIVE MATERIAL	FUKATANI TOMOYUKI HOSHIBA HIROHARU TAKEI YUKI	SAMSUNG SDI CO LTD	JP2019003786A	2017-06-14	H01M10/052 H01M10/0568 H01M10/0569 H01M2/16 H01M4/36 H01M4/505 H01M4/525		2019-01-10	2019-01-10	065008109

177. SECONDARY BATTERY PACK

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
SECONDARY BATTERY PACK	LEE SANG-IL	SAMSUNG SDI CO LTD	JP2015002172A	2013-06-14	H01M10/60 H01M2/10 H01M2/30 H01M2/34	H01M10/0436 (EP) H01M10/4207 (EP) H01M10/425 (EP,US) H01M2/0212 (EP) H01M2/1061 (EP) H01M2/22 (EP) H01M2/266 (CN) H01M2/34 (CN) H01M10/613 (EP) H01M10/647 (EP) H01M2/021 (CN) H01M2/0212 (CN) H01M2200/00 (EP)	2015-01-05	2014-12-17	049510033

178. BATTERY PACK

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
BATTERY PACK	KIM HYUN-KOOK KIN KENCHU LEE JUN-HO NOH KYOUNG-HWAN	SAMSUNG SDI CO LTD	JP2013235828A JP6222975B2	2012-05-08	H01M2/10 H01M2/20 H01M2/34	H01M10/425 (EP,KR,US) H01M2/204 (EP,KR,US) H05K1/0263 (EP,KR,US) H05K1/148 (EP,KR,US) H01M2220/20 (KR)	2013-11-21 2017-11-01	2013-11-14	049548849

						H05K2201/10037 (EP,KR,US) H05K2201/10151 (EP,KR,US) H05K2201/10356 (EP,KR,US) H05K2201/10409 (EP,KR,US)			
--	--	--	--	--	--	--	--	--	--

179. ANODE ACTIVE MATERIAL FOR LITHIUM SECONDARY BATTERY, METHOD FOR PRODUCING THE SAME, AND LITHIUM SECONDARY BATTERY CONTAINING THE SAME

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
ANODE ACTIVE MATERIAL FOR LITHIUM SECONDARY BATTERY, METHOD FOR PRODUCING THE SAME, AND LITHIUM SECONDARY BATTERY CONTAINING THE SAME	KIM DOK-HYON KIM JAE-MYUNG KIM TAE SIK ZHU GYU-NAN	SAMSUNG SDI CO LTD	JP2013143376A JP6122593B2	2012-01-06	H01M10/052 H01M4/583 H01M4/36 H01M4/38 H01M4/48 H01M4/58	A63B21/02 (KR) A63B23/16 (KR) H01M10/052 (EP) H01M4/134 (EP) H01M4/362 (EP) H01M4/366 (EP) H01M4/386 (EP) H01M4/483 (EP)	2013-07-22 2017-04-26	2013-07-10	047519914

180. POSITIVE ELECTRODE FOR LITHIUM SECONDARY BATTERY AND LITHIUM SECONDARY BATTERY INCLUDING THE SAME

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
POSITIVE ELECTRODE FOR LITHIUM SECONDARY BATTERY AND LITHIUM SECONDARY BATTERY INCLUDING THE SAME	HAN JEONG-WOO ISHIDA SUMIHITO KIM YOUNG-KEE PARK TAEK-IL	SAMSUNG SDI CO LTD	JP2014137991A JP6355227B2	2013-01-16	H01M4/13 H01M10/052 H01M10/0566 H01M4/505 H01M4/525 H01M4/58 H01M4/62 H01M4/131	H01M10/0525 (KR) H01M4/131 (EP,CN,KR,US) H01M4/133 (KR) H01M4/1391 (KR) H01M4/1393 (KR) H01M4/364 (EP,CN,KR,US) H01M4/485 (EP,CN,KR,US) H01M4/505 (EP,CN,KR,US) H01M4/525 (EP,CN,KR,US) H01M4/5825 (EP,CN,KR,US) H01M4/583 (EP,CN,US) H01M4/587 (EP,CN,US) H01M10/0525 (EP,CN,US) H01M4/623 (EP,CN,US) H01M4/625 (EP,CN,US)	2014-07-28 2018-07-11	2014-07-16	048949054

181. GEL ELECTROLYTE FOR LITHIUM SECONDARY BATTERY CONTAINING ADDITIVE AND LITHIUM SECONDARY BATTERY CONTAINING IT

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
GEL ELECTROLYTE FOR LITHIUM SECONDARY BATTERY CONTAINING ADDITIVE AND LITHIUM SECONDARY BATTERY CONTAINING IT	HAN SU-HEE KIM JIN-SUNG LIM JINHYUNK OH MI-HYON PARK NARE	SAMSUNG SDI CO LTD	JP2012009441A JP5618918B2	2010-06-25	H01B1/06 H01M10/052 H01M10/0565	H01G11/56 (EP,US) H01M10/0565 (EP,US) H01M10/0567 (EP,US) H01M2300/0085 (EP,US) Y02E60/13 (EP,US)	2012-01-12 2014-11-05	2011-12-28	044645305

182. ENERGY STORAGE SYSTEM									
Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
ENERGY STORAGE SYSTEM	BYUN JEONG-DEOK KIM BYOUNGJU KWAK EUNOK YOON JONG-WOOK	SAMSUNG SDI CO LTD	JP2013058478A JP6103860B2	2011-09-08	B65G1/14 H01M2/10	H01M10/465 (EP,US) H01M2/1016 (EP,US) H01M10/0525 (EP,US) Y02E60/10 (EP,US)	2013-03-28 2017-03-29	2013-03-14	047830103
183. ELECTRODE FOR LITHIUM SECONDARY BATTERY, AND LITHIUM SECONDARY BATTERY INCLUDING THE SAME									
Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
ELECTRODE FOR LITHIUM SECONDARY BATTERY, AND LITHIUM SECONDARY BATTERY INCLUDING THE SAME	BAEK HO-YEOL CHEONG KYEONG-BEOM KIM JAE-ROK KIM JE-IK KIM JONG-MAN	SAMSUNG SDI CO LTD	JP2012186138A JP6021243B2	2011-03-07	H01M4/505 H01M4/13 H01M4/131 H01M4/62 H01M4/133	C08G79/00 (KR) H01M10/052 (KR) H01M4/13 (KR) H01M4/131 (EP,KR,US) H01M4/133 (EP,KR,US) H01M4/136 (EP,KR,US) H01M4/1391 (KR) H01M4/1393 (KR) H01M4/1397 (KR) H01M4/505 (KR) H01M4/62 (KR) H01M4/621 (EP,KR,US) H01M4/623 (EP,KR,US) H01M2220/30 (KR) Y02E60/10 (US)	2012-09-27 2016-11-09	2012-09-12	044510778
184. ELECTROLYTE FOR RECHARGEABLE LITHIUM BATTERY, AND RECHARGEABLE LITHIUM BATTERY INCLUDING THE SAME									
Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
ELECTROLYTE FOR RECHARGEABLE LITHIUM BATTERY, AND RECHARGEABLE LITHIUM BATTERY INCLUDING THE SAME	BOKU HIROKIMI IM JIN-HYOK OH MI-HYEUN YANG HO-SEOK	SAMSUNG SDI CO LTD	JP2013105745A JP6176819B2	2011-11-14	H01M4/587 H01M10/0525 H01M10/0567 H01M10/0568 H01M10/0569 H01M4/36 H01M4/38 H01M4/48	H01M10/052 (EP,US) H01M10/0525 (EP,US) H01M10/0567 (EP,US) H01M10/0569 (EP,US) H01M4/133 (EP,US) H01M4/134 (EP,US) H01M4/386 (EP,US) H01M4/387 (EP,US) H01M4/485 (EP,US) H01M2300/0028 (EP,US) Y02E60/10 (US)	2013-05-30 2017-08-09	2013-05-15	046796393
185. BATTERY PACK									
Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
BATTERY PACK									

	HUANG YIJING KIM BEOM-GYU KIM JINWAN SEZAWA SUSUMU SIM SE SUB YANG JONG- WOON YUN HAN- SEOK	SAMSUNG SDI CO LTD	JP2012059703A JP5620351B2	2010-09-08	H01M10/44 H01M10/48 H01M2/10 H02J7/02	H02J7/0016 (EP,US) H02J7/0042 (EP,US) Y02T10/70 (EP,US)	2012-03-22 2014-11-05	2012-03-08	045440630
--	--	-----------------------	------------------------------	------------	--	--	--------------------------	------------	-----------

186. ELECTROLYTE FOR LITHIUM SECONDARY BATTERY, AND LITHIUM SECONDARY BATTERY CONTAINING THE SAME

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
ELECTROLYTE FOR LITHIUM SECONDARY BATTERY, AND LITHIUM SECONDARY BATTERY CONTAINING THE SAME	KIM SUN-YOUNG PARK SIN-YOUNG RI YOCHAN YI BO- RA	SAMSUNG SDI CO LTD	JP2012134151A JP6037613B2	2010-12-22	H01M10/052 H01M10/0567 H01M10/0569	H01M10/0567 (EP,US) H01M10/0569 (EP,US) H01M6/16 (US) H01M6/164 (US) H01M6/168 (US) H01M10/052 (EP,US) H01M10/4235 (EP,US) H01M2300/0025 (EP,US) H01M2300/0034 (US) H01M2300/0037 (US) H01M2300/004 (US) Y02E60/10 (US)	2012-07-12 2016-12-07	2012-06-27	045093480

187. PHOTOSENSITIVE RESIN COMPOSITION, BLACK PIXEL DEFINING LAYER USING THE SAME, AND DISPLAY DEVICE

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
PHOTOSENSITIVE RESIN COMPOSITION, BLACK PIXEL DEFINING LAYER USING THE SAME, AND DISPLAY DEVICE	HONG CHUNGBEUM KANG HEEKYOUNG KANG JIN-HEE KIM SANG S KIM SANG-SOO KWON CHANG- HYUN KWON JIYUN LEE BUM- JIN LEE JUN HO	SAMSUNG SDI CO LTD	JP2018084789A	2016-11-25	C08F290/00 G02B5/20 G03F7/004 G03F7/027 G03F7/037 G03F7/075 H01L51/50 H05B33/12 H05B33/22	G03F7/0007 (EP) G03F7/0048 (EP,US) G03F7/027 (EP,CN) G03F7/031 (US) G03F7/037 (CN,US) G03F7/038 (US) G03F7/039 (US) G03F7/105 (EP) H01L27/3246 (CN,US)	2018-05-31	2018-05-31	062190034

188. POLYMER, ORGANIC FILM COMPOSITION, AND PATTERNING METHOD

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
POLYMER, ORGANIC FILM COMPOSITION, AND PATTERNING METHOD	KIM SEUNG- HYUN PARK YUSHIN SHIN SEUNG-WOOK	SAMSUNG SDI CO LTD	JP2020029558A	2018-08-21	C08F38/00 C08L49/00 G03F7/11 G03F7/26	C08F138/00 (EP,CN,US) C09D129/00 (EP) C09D149/00 (EP,US) G03F7/094 (EP) H01L21/02118 (US) H01L21/02282 (US) H01L21/0274 (US) H01L21/31058 (US) G03F7/16	2020-02-27	2020-02-27	069587106

						(US) G03F7/20 (US) G03F7/26 (US) H01L21/0271 (EP)			
189. BATTERY MODULE									
Title BATTERY MODULE	Inventors KIN EITOKU LEE JEONG-JOO	Applicants SAMSUNG SDI CO LTD	Publication number JP2014138000A JP6411742B2	Earliest priority 2013-01-18	IPC H01M2/20 H01M2/30 H01M2/10	CPC H01M2/1077 (EP,CN,US) H01M2/206 (EP,CN,US) H01M2/30 (EP,CN,US) H01M2220/20 (EP,CN,US)	Publication date 2014-07-28 2018-10-24	Earliest publication 2014-07-23	Family number 049917626
190. ELECTROLYTE FOR RECHARGEABLE LITHIUM ION BATTERY AND RECHARGEABLE LITHIUM ION BATTERY									
Title ELECTROLYTE FOR RECHARGEABLE LITHIUM ION BATTERY AND RECHARGEABLE LITHIUM ION BATTERY	Inventors TAKASE HIROSHIGE YOKOTSUJI HOKUTO	Applicants SAMSUNG SDI CO LTD	Publication number JP2014110235A JP6085456B2	Earliest priority 2012-12-04	IPC H01M10/052 H01M10/0566 H01M10/0567 H01M10/0568 H01M10/0569	CPC H01M10/0525 (KR) H01M10/0567 (KR) H01M10/0568 (KR) H01M10/0569 (KR) H01M4/386 (KR) H01M4/505 (KR) H01M4/525 (KR) H01M2300/0025 (KR)	Publication date 2014-06-12 2017-02-22	Earliest publication 2014-06-12	Family number 051030724
191. SECONDARY BATTERY PACK									
Title SECONDARY BATTERY PACK	Inventors PARK BEOM-SIK	Applicants SAMSUNG SDI CO LTD	Publication number JP2015153752A JP6598187B2	Earliest priority 2014-02-10	IPC H01M2/10	CPC H01M10/4257 (EP,US) H01M2/0417 (EP,US) H01M2/30 (US) H01M2/34 (US) H01M2/348 (EP,US) H01M10/0431 (EP,US) H01M2/0473 (EP,US) H01M2/36 (EP,US) H01M2200/00 (US) H01M2200/106 (EP,US) H01M2220/20 (US) H01M2220/30 (US)	Publication date 2015-08-24 2019-10-30	Earliest publication 2015-08-12	Family number 052350025
192. ADHESIVE FOR OPTICAL FILM									
Title ADHESIVE FOR OPTICAL FILM	Inventors INUI KUNIHICO OGAWA HIROSHI SUWA TATSUHIRO	Applicants SAMSUNG SDI CO LTD	Publication number JP2018083927A	Earliest priority 2016-11-25	IPC C09J11/06 C09J163/00 C09J201/00 C09J4/02	CPC	Publication date 2018-05-31	Earliest publication 2018-05-31	Family number 062237040

	TAKAHASHI TOSHIYUKI				C09J7/20 G02B5/30				
193. ADHESIVE COMPOSITION FOR OPTICAL FILM, ADHESIVE LAYER, OPTICAL MEMBER AND IMAGE DISPLAY DEVICE									
Title ADHESIVE COMPOSITION FOR OPTICAL FILM, ADHESIVE LAYER, OPTICAL MEMBER AND IMAGE DISPLAY DEVICE	Inventors INUI KUNIHIRO OGAWA HIROSHI SUWA TATSUHIRO TAKAHASHI TOSHIYUKI	Applicants SAMSUNG SDI CO LTD	Publication number JP2018095843A	Earliest priority 2016-12-13	IPC B32B27/00 B32B27/30 B32B7/04 C09J11/08 C09J133/14 C09J175/04 C09J183/02 C09J7/20 G02B5/30 G02F1/1335	CPC	Publication date 2018-06-21	Earliest publication 2018-06-21	Family number 062632043
194. SECONDARY BATTERY									
Title SECONDARY BATTERY	Inventors LEE HONG- HYEON	Applicants SAMSUNG SDI CO LTD	Publication number JP2017041440A	Earliest priority 2015-08-19	IPC H01M2/04 H01M2/06 H01M2/30 H01M2/34	CPC H01M2/043 (US) H01M2/0473 (EP,US) H01M2/06 (EP,US) H01M2/20 (CN) H01M2/30 (EP,CN,US) H01M2/34 (EP,US) H01M10/0431 (EP,US) H01M2200/00 (EP,US) H01M2220/20 (US)	Publication date 2017-02-23	Earliest publication 2017-02-22	Family number 056738033
195. SECONDARY BATTERY									
Title SECONDARY BATTERY	Inventors LEE JONGHA YONG JUNSUN	Applicants SAMSUNG SDI CO LTD	Publication number JP2016042464A	Earliest priority 2014-08-13	IPC H01M2/02 H01M2/04	CPC H01M2/0207 (CN) H01M2/0404 (CN,US) H01M2/0426 (EP,US) H01M2/0469 (EP,CN,US) H01M2/0473 (EP,US) H01M2/0207 (EP,US) H01M2/0217 (EP,US)	Publication date 2016-03-31	Earliest publication 2016-02-17	Family number 053800889
196. CAP ASSEMBLY AND SECONDARY BATTERY INCLUDING THE SAME									
Title CAP ASSEMBLY AND SECONDARY BATTERY INCLUDING THE SAME	Inventors CHO GENICH KIM YUN-CHANG LEE SANG HYO	Applicants SAMSUNG SDI CO LTD	Publication number JP2015156375A	Earliest priority 2014-02-20	IPC H01M2/04 H01M2/12 H01M2/34	CPC H01M10/0422 (US) H01M2/04 (US) H01M2/046 (EP,CN) H01M2/12 (US) H01M2/1205 (EP,CN) H01M2/1229 (EP,CN) H01M2/1241	Publication date 2015-08-27	Earliest publication 2015-08-20	Family number 052462132

						(EP,CN) H01M2/345 (US) H01M2200/20 (EP,CN,US)			
197. METHOD FOR MANUFACTURING POLYENE BASED POLARIZING FILM, POLYENE BASED POLARIZING FILM, LAMINATED POLARIZING FILM AND DISPLAY DEVICE									
Title METHOD FOR MANUFACTURING POLYENE BASED POLARIZING FILM, POLYENE BASED POLARIZING FILM, LAMINATED POLARIZING FILM AND DISPLAY DEVICE	Inventors KOBORI SHIGETO SATO ATSUSHI TAKAGI TAKASHI TAKAHASHI TOSHIYUKI	Applicants SAMSUNG SDI CO LTD	Publication number JP2017097011A JP6675179B2	Earliest priority 2015-11-18	IPC B32B27/30 C08J7/00 C08K3/38 C08K5/053 C08K5/057 C08K5/5415 C08L29/04 G02B5/30 G02F1/1335 H01L51/50 H05B33/02	CPC	Publication date 2017-06-01 2020-04-01	Earliest publication 2017-05-26	Family number 058816676
198. CATHODE FOR LITHIUM SECONDARY BATTERY AND LITHIUM SECONDARY BATTERY INCLUDING THE SAME									
Title CATHODE FOR LITHIUM SECONDARY BATTERY AND LITHIUM SECONDARY BATTERY INCLUDING THE SAME	Inventors AN JUNG-WOO ISHIDA SUMIHITO SHEN KUIYUN	Applicants SAMSUNG SDI CO LTD	Publication number JP2013232396A JP6274722B2	Earliest priority 2012-04-30	IPC H01M10/052 H01M10/0566 H01M4/13 H01M4/587 H01M4/62 H01M10/0525 H01M4/36 H01M4/38 C01B31/08	CPC H01M10/0525 (EP,KR,US) H01M4/133 (KR) H01M4/1393 (KR) H01M4/364 (EP,KR,US) H01M4/525 (KR) H01M4/583 (KR,US) H01M4/587 (EP,KR,US) H01M4/621 (KR) H01M2004/021 (EP,KR,US) H01M4/525 (EP,US)	Publication date 2013-11-14 2018-02-07	Earliest publication 2013-10-30	Family number 047563299
199. COMPOUND FOR ORGANIC OPTOELECTRONIC DEVICE, ORGANIC OPTOELECTRONIC DEVICE AND DISPLAY APPARATUS									
Title COMPOUND FOR ORGANIC OPTOELECTRONIC DEVICE, ORGANIC OPTOELECTRONIC DEVICE AND DISPLAY APPARATUS	Inventors HAN SU-JIN JANG YU-NA KANG DONG-MIN KIM YOUNGKWON LEE SANG-SHIN LUI JIN-HYUN YU EUN-SUN	Applicants SAMSUNG SDI CO LTD	Publication number JP2016147851A JP6687401B2	Earliest priority 2015-02-13	IPC C07D519/00 C09K11/06 H01L51/50	CPC C07D519/00 (EP,CN,US) C09K11/025 (US) C09K11/06 (KR) H01L51/0071 (CN,KR,US) H01L51/50 (KR) C09K2211/1048 (KR) C09K2211/1051 (KR) H01L51/5012 (US)	Publication date 2016-08-18 2020-04-22	Earliest publication 2016-08-16	Family number 054541935
200. NICKEL BASED ACTIVE MATERIAL PRECURSOR FOR LITHIUM SECONDARY BATTERY, MANUFACTURING METHOD THE SAME, NICKEL BASED ACTIVE MATERIAL FOR LITHIUM SECONDARY BATTERY FORMED FROM THE SAME, AND LITHIUM SECONDARY BATTERY INCLUDING POSITIVE ELECTRODE CONTAINING THE SAME									
Title NICKEL BASED ACTIVE MATERIAL PRECURSOR FOR LITHIUM SECONDARY BATTERY, MANUFACTURING	Inventors KIM DOYU YANG WOYOYUNG	Applicants SAMSUNG SDI CO LTD	Publication number JP2020027800A	Earliest priority 2018-08-14	IPC C01G53/00 H01M4/505 H01M4/525	CPC C01B35/10 (CN) C01G53/006 (EP,CN) C01G53/42 (EP) C01G53/50 (EP)	Publication date 2020-02-20	Earliest publication 2020-02-19	Family number 067620308

METHOD THE SAME, NICKEL BASED ACTIVE MATERIAL FOR LITHIUM SECONDARY BATTERY FORMED FROM THE SAME, AND LITHIUM SECONDARY BATTERY INCLUDING POSITIVE ELECTRODE CONTAINING THE SAME						H01M10/0525 (CN,US) H01M4/366 (US) H01M4/485 (CN) H01M4/505 (CN,US) H01M4/525 (EP,CN,US) C01P2004/04 (EP,CN) C01P2004/50 (EP) C01P2004/54 (EP) C01P2004/61 (EP) C01P2006/14 (EP) C01P2006/16 (EP) H01M10/0525 (EP) H01M2004/028 (US)			
---	--	--	--	--	--	--	--	--	--

201. CATHODE ACTIVE MATERIAL AND CATHODE AND LITHIUM BATTERY USING THIS

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
CATHODE ACTIVE MATERIAL AND CATHODE AND LITHIUM BATTERY USING THIS	IM DONG-MIN IN ZAIKYU PARK KYU-SUNG	SAMSUNG SDI CO LTD	JP2009206100A JP5808073B2	2008-02-28	H01M4/485 H01M4/505 H01M4/525	H01M10/0525 (EP,US) H01M4/131 (EP,US) H01M4/485 (EP,US) H01M4/505 (EP,US) H01M4/525 (EP,US) Y02E60/10 (US)	2009-09-10 2015-11-10	2009-09-02	040740124

202. METHOD FOR MANUFACTURING SILICA FILM, SILICA FILM AND ELECTRONIC DEVICE

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
METHOD FOR MANUFACTURING SILICA FILM, SILICA FILM AND ELECTRONIC DEVICE	BAE JIN-HEE LEE JI-HO LIM WAN- HEE NOH KUN- BAE YUN HUI- CHAN	SAMSUNG SDI CO LTD	JP2017063178A	2015-09-25	C01B33/12 H01L21/316 H01L21/768	C09D183/16 (EP) H01L21/02164 (EP,US) H01L21/02216 (EP) H01L21/02222 (EP,US) H01L21/02282 (EP,US) H01L21/02307 (EP,US) H01L21/02337 (US) H01L21/283 (CN) H01L21/31 (CN) H01L23/28 (CN) H01L29/51 (CN) C08G77/62 (EP)	2017-03-30	2017-03-30	058409921

203. ELECTRODE ASSEMBLY HAVING ELECTRODE TAB AND SECONDARY BATTERY

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
ELECTRODE ASSEMBLY HAVING ELECTRODE TAB AND SECONDARY BATTERY	HWANG SAN KIM YU-NA YOON JANG-HO	SAMSUNG SDI CO LTD	JP2016139596A JP6641116B2	2015-01-28	H01M10/04 H01M2/06 H01M2/26	H01M10/0409 (EP,KR,US) H01M10/0413 (KR) H01M10/0431 (EP,KR,US)	2016-08-04 2020-02-05	2016-07-28	055070878

						H01M10/052 (EP,KR,US) H01M10/0587 (EP,CN,KR,US) H01M2/20 (CN) H01M2/263 (EP,KR,US) H01M4/13 (CN) H01M4/70 (EP,KR,US) H01M10/0413 (EP,US) H01M2220/20 (KR) Y02E60/12 (KR)			
--	--	--	--	--	--	--	--	--	--

204. NEGATIVE ELECTRODE ACTIVE MATERIAL, METHOD FOR MANUFACTURING THE SAME, AND LITHIUM BATTERY COMPRISING THE SAME

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
NEGATIVE ELECTRODE ACTIVE MATERIAL, METHOD FOR MANUFACTURING THE SAME, AND LITHIUM BATTERY COMPRISING THE SAME	KIM BUM KWON KIN JAE MYUNG LEE SO-RA SIN CHANG SOO TO GISHO	SAMSUNG SDI CO LTD	JP2012238594A JP6099881B2	2011-05-11	H01M10/0566 H01M4/36 H01M4/587 H01M10/0525	C01B32/05 (EP) H01M10/0525 (EP) H01M4/38 (EP,US) H01M4/587 (EP,US) H01M4/366 (EP,US) Y10S977/773 (EP,US)	2012-12-06 2017-03-22	2012-09-12	045976846

205. SEPARATION FILM INCLUDING HEAT-RESISTANT LAYER, SECONDARY BATTERY ARRANGED BY USE THEREOF AND MANUFACTURING METHODS THEREOF

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
SEPARATION FILM INCLUDING HEAT-RESISTANT LAYER, SECONDARY BATTERY ARRANGED BY USE THEREOF AND MANUFACTURING METHODS THEREOF	KIM YONG KYOUNG LEE KYUNG JU SEO DONG-WAN	SAMSUNG SDI CO LTD	JP2017123330A	2016-01-08	H01M2/16	H01M10/052 (CN) H01M2/145 (CN) H01M2/1653 (CN) H01M2/1686 (CN)	2017-07-13	2017-07-13	059305765

206. ADHESIVE COMPOSITION, OPTICAL MEMBER AND ADHESIVE SHEET

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
ADHESIVE COMPOSITION, OPTICAL MEMBER AND ADHESIVE SHEET	INUI KUNIHIO ISHIKAWA KAZUTAKA OGAWA HIROSHI SUWA TATSUHIRO	SAMSUNG SDI CO LTD	JP2017095658A JP6688054B2	2015-11-27	C09J11/06 C09J133/06 C09J133/14 C09J4/02 C09J7/00 H01L51/50 H05B33/04	C09J133/06 (KR) C09J133/066 (KR) C09J133/10 (KR) C09J7/00 (KR) C09J7/20 (KR) C09J2203/318 (KR) C09J2301/312 (KR)	2017-06-01 2020-04-28	2017-06-01	058817826

207. "METHOD OF MANUFACTURING PHOTOELECTRIC DEVICE"

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
"METHOD OF MANUFACTURING PHOTOELECTRIC DEVICE"	CHAN-BIN MO [kr] DONG-SEOP KIM [kr] DOO-YOUL LEE [kr] JAE-HO SHIN [kr] MIN- CHUL SONG [kr] SANG-JIN PARK	SAMSUNG SDI CO LTD [kr]	IN1288MU2013A	2012-04-04	H01L21/00 H01L31/18	H01L31/1804 (KR) H01L31/02167 (KR) H01L31/068 (KR) Y02E10/547 (EP) Y02P70/50 (EP)	2015-04-17	2013-10-14	049633618

	[kr] SANG-WON SEO [kr] YOUNG- JIN KIM [kr] YOUNG-SANG PARK [kr] YOUNG- SU KIM [kr]								
208. COATED PARTICLE FOR LITHIUM ION SECONDARY BATTERY, POSITIVE ELECTRODE ACTIVE MATERIAL LAYER FOR LITHIUM ION SECONDARY BATTERY, AND LITHIUM ION SECONDARY BATTERY									
Title COATED PARTICLE FOR LITHIUM ION SECONDARY BATTERY, POSITIVE ELECTRODE ACTIVE MATERIAL LAYER FOR LITHIUM ION SECONDARY BATTERY, AND LITHIUM ION SECONDARY BATTERY	Inventors NAKANO MASATSUGU TAKEI YUKI	Applicants SAMSUNG SDI CO LTD	Publication number JP2016100101A	Earliest priority 2014-11-19	IPC H01M4/36 H01M4/505 H01M4/525	CPC	Publication date 2016-05-30	Earliest publication 2016-05-27	Family number 056077978
209. ELECTROLYTE FOR NONAQUEOUS ELECTROLYTE SECONDARY BATTERY AND NONAQUEOUS ELECTROLYTE SECONDARY BATTERY									
Title ELECTROLYTE FOR NONAQUEOUS ELECTROLYTE SECONDARY BATTERY AND NONAQUEOUS ELECTROLYTE SECONDARY BATTERY	Inventors KAWASE KENICHI MIZUKUMO TOMONOBU YAMAMOTO HIDEKAZU	Applicants SAMSUNG SDI CO LTD	Publication number JP2019145325A	Earliest priority 2018-02-20	IPC H01M10/052 H01M10/0566 H01M10/0568 H01M10/0569	CPC	Publication date 2019-08-29	Earliest publication 2019-08-28	Family number 067773906
210. LITHIUM ION SECONDARY BATTERY									
Title LITHIUM ION SECONDARY BATTERY	Inventors KAWASE KENICHI NISHIMOTO ATSUSHI YAMAMOTO HIDEKAZU	Applicants SAMSUNG SDI CO LTD	Publication number JP2019175712A	Earliest priority 2018-03-28	IPC H01M10/052 H01M10/0567 H01M4/133 H01M4/587	CPC	Publication date 2019-10-10	Earliest publication 2019-10-08	Family number 068169616
211. LITHIUM POUCH BATTERY									
Title LITHIUM POUCH BATTERY	Inventors KIM CHEON-SOO	Applicants SAMSUNG SDI CO LTD	Publication number JP2015015236A	Earliest priority 2013-07-03	IPC H01M10/0587 H01M2/14 H01M2/16	CPC H01M10/0431 (EP,CN,US) H01M10/0587 (EP,CN) H01M2/0212 (EP,CN) H01M2/0267 (EP,CN) H01M2/0282 (EP,CN) H01M2/168 (EP,CN) H01M2/1686 (EP,CN,US) H01M10/0525 (EP,CN,US) H01M2/0272 (EP,CN) H01M220/30 (EP,CN,US) Y10T29/49114 (EP,US)	Publication date 2015-01-22	Earliest publication 2015-01-07	Family number 050184814

						Y10T29/49115 (EP,US)			
212. POSITIVE ELECTRODE FOR NONAQUEOUS ELECTROLYTE SECONDARY BATTERY, WOUND ELEMENT FOR NONAQUEOUS ELECTROLYTE SECONDARY BATTERY, AND NONAQUEOUS ELECTROLYTE SECONDARY BATTERY									
Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
POSITIVE ELECTRODE FOR NONAQUEOUS ELECTROLYTE SECONDARY BATTERY, WOUND ELEMENT FOR NONAQUEOUS ELECTROLYTE SECONDARY BATTERY, AND NONAQUEOUS ELECTROLYTE SECONDARY BATTERY	FUKAHORI HIRONORI NOMURA KEISUKE	SAMSUNG SDI CO LTD	JP2017147206A	2016-02-19	C08K3/00 C08L27/16 C08L9/02 H01M10/0587 H01M4/13 H01M4/62		2017-08-24	2017-08-24	059683216
213. POSITIVE ELECTRODE MIXTURE SLURRY, POSITIVE ELECTRODE FOR NONAQUEOUS ELECTROLYTE SECONDARY BATTERY, AND NONAQUEOUS ELECTROLYTE SECONDARY BATTERY									
Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
POSITIVE ELECTRODE MIXTURE SLURRY, POSITIVE ELECTRODE FOR NONAQUEOUS ELECTROLYTE SECONDARY BATTERY, AND NONAQUEOUS ELECTROLYTE SECONDARY BATTERY	FUKAHORI HIRONORI NOMURA KEISUKE	SAMSUNG SDI CO LTD	JP2017182989A	2016-03-29	H01M4/13 H01M4/131 H01M4/139 H01M4/1391 H01M4/36 H01M4/62		2017-10-05	2017-10-05	060008516
214. DRYING APPARATUS AND DRYING METHOD									
Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
DRYING APPARATUS AND DRYING METHOD	CHO BONG HYUN CHUNG JUN HO JANG WOO JIN KIM TAE SIK PARK HUN YOUNG PARK JIN KYU	SAMSUNG SDI CO LTD	JP2015068637A	2013-09-27	B05C9/14 F26B13/02 F26B13/20	F26B13/10 (EP,US) H01M2/145 (EP,US) H01M2/1646 (EP,US) H01M2/1653 (EP,US) H01M2/1686 (EP,US)	2015-04-13	2015-04-02	052738694
215. POSITIVE ELECTRODE FOR LITHIUM ION SECONDARY BATTERY									
Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
POSITIVE ELECTRODE FOR LITHIUM ION SECONDARY BATTERY	KOBAYASHI NAOYA MAEDA HIDEAKI TAKAKURA TERU	SAMSUNG SDI CO LTD	JP2010129494A JP5739087B2	2008-11-28	H01M4/36 H01M4/485	H01M10/0525 (KR) H01M4/366 (KR) H01M4/505 (KR) H01M4/62 (KR) Y02E60/10 (KR)	2010-06-10 2015-06-24	2010-06-07	042329738
216. COMPLEX ANODE ACTIVE MATERIAL, ITS MANUFACTURING METHOD, AND ANODE AND LITHIUM BATTERY USING THE SAME									
Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
COMPLEX ANODE ACTIVE MATERIAL, ITS MANUFACTURING METHOD, AND ANODE AND LITHIUM BATTERY USING THE SAME	DOO SEOK- GWANG IM DONG-MIN KIM HAN-SOO PARK JIN-HWAN	SAMSUNG SDI CO LTD	JP2009152201A JP5706065B2	2007-12-18	H01M4/36 H01M4/38	H01M10/052 (EP) H01M4/38 (EP) H01M4/40 (EP) H01M4/48 (EP) H01M4/386 (EP) H01M4/387 (EP)	2009-07-09 2015-04-22	2009-06-18	040753708
217. BATTERY PACK									

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
BATTERY PACK	CHO MANSIK	SAMSUNG SDI CO LTD	JP2017174808A	2016-03-21	H01M2/10	H01M10/425 (EP,US) H01M10/46 (US) H01M2/105 (EP) H01M2/202 (US) H01M2/204 (EP) H01M2/22 (EP) H01M2/26 (US) H02J7/0013 (EP,US) H02J7/0042 (US) H02J7/0045 (EP) H01M2010/4271 (EP,US) H01M2220/30 (EP)	2017-09-28	2017-09-21	059856031

218. SECONDARY BATTERY

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
SECONDARY BATTERY	AHN CHANGBUM	SAMSUNG SDI CO LTD	JP2013020968A JP6423134B2	2011-07-12	H01M10/04 H01M2/26 H01M2/34 H01M4/02	H01M10/02 (EP,US) H01M10/0413 (KR) H01M10/0431 (EP,KR,US) H01M10/0436 (KR) H01M10/058 (EP,US) H01M10/0585 (KR) H01M10/0587 (KR) H01M10/4235 (EP,KR,US) H01M2/1646 (EP,US) H01M2/1673 (EP,US) H01M2/26 (KR) H01M2/34 (KR)	2013-01-31 2018-11-14	2013-01-16	046384227

219. ANTIREFLECTION FILM, ANTIREFLECTION MEMBER, POLARIZER, AND DISPLAY DEVICE

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
ANTIREFLECTION FILM, ANTIREFLECTION MEMBER, POLARIZER, AND DISPLAY DEVICE	TAKAGI TAKASHI	SAMSUNG SDI CO LTD	JP2018091906A	2016-11-30	B32B27/20 B32B27/30 G02B1/111 G02B1/14 G02B5/30 G02F1/1335		2018-06-14	2018-06-08	062565431

220. NEGATIVE ELECTRODE ACTIVE MATERIAL FOR LITHIUM SECONDARY BATTERY, MANUFACTURING METHOD THEREOF, NEGATIVE ELECTRODE INCLUDING THE SAME, AND LITHIUM SECONDARY BATTERY INCLUDING THE SAME

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
NEGATIVE ELECTRODE ACTIVE MATERIAL FOR LITHIUM SECONDARY BATTERY, MANUFACTURING METHOD THEREOF, NEGATIVE ELECTRODE INCLUDING THE SAME, AND LITHIUM	LEE EUNJOO NAH JAEHO	SAMSUNG SDI CO LTD	JP2020043069A	2018-09-07	C01B32/00 C01B32/21 H01M10/052 H01M10/0566 H01M4/36 H01M4/587	C01B32/312 (CN) H01M10/052 (CN) H01M10/0525 (EP,US) H01M10/0587 (CN) H01M4/0471 (EP) H01M4/133 (EP,CN) H01M4/1393 (EP)	2020-03-19	2020-03-11	067874347

SECONDARY BATTERY INCLUDING THE SAME						H01M4/366 (EP,US) H01M4/587 (EP,CN,US) H01M4/625 (CN) H01M2004/021 (US) H01M2004/027 (US)			
--------------------------------------	--	--	--	--	--	---	--	--	--

221. SECONDARY BATTERY

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
SECONDARY BATTERY	JANG YOUNGCHEOL SEO KYUNG-WON	SAMSUNG SDI CO LTD	JP2010267602A JP5645243B2	2009-05-15	H01M10/46 H01M2/10 H01M2/30	H01M10/0436 (EP,US) H01M10/425 (EP,US) H01M2/0426 (EP,US) H01M2/0469 (EP,US) H01M2/0486 (EP,US) H01M2/06 (EP,US) H01M2/34 (EP,US) H01M2/0207 (EP,US) H01M2/36 (EP,US) H01M2200/00 (EP,US) H01M6/50 (EP,US) Y02E60/10 (US) Y10T29/49108 (EP,US) Y10T29/4911 (EP,US)	2010-11-25 2014-12-24	2010-11-17	042340539

222. DC BOOSTER CIRCUIT

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
DC BOOSTER CIRCUIT	TANITSU MAKOTO	SAMSUNG SDI CO LTD	JP2016092985A JP6511248B2	2014-11-05	H02M3/155		2016-05-23 2019-05-15	2016-05-13	056019279

223. NEGATIVE ELECTRODE ACTIVE MATERIAL FOR LITHIUM SECONDARY BATTERIES, AND LITHIUM SECONDARY BATTERY INCLUDING THE SAME

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
NEGATIVE ELECTRODE ACTIVE MATERIAL FOR LITHIUM SECONDARY BATTERIES, AND LITHIUM SECONDARY BATTERY INCLUDING THE SAME	CHA JUNG-WOOK EO SUNG-HWA LIM DAE-SEOP SHEN KUIYUN WON JUNG-YEON	SAMSUNG SDI CO LTD	JP2015228370A JP6628305B2	2014-06-02	H01M10/052 H01M10/0566 H01M4/36 H01M4/587	C01B32/05 (EP) H01M10/052 (CN,US) H01M4/0471 (EP) H01M4/366 (EP,CN,US) H01M4/583 (US) H01M4/587 (EP,CN) C01P2002/82 (EP) H01M2004/021 (CN,US) H01M2004/027	2015-12-17 2020-01-08	2015-12-03	053269371

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
(US) H01M4/133 (EP)									
224. SECONDARY BATTERY									
SECONDARY BATTERY	KWON MIN-HYEONG	SAMSUNG SDI CO LTD	JP2015153747A JP6407602B2	2014-02-14	H01M2/04 H01M2/26 H01M2/34	H01M10/42 (EP) H01M2/02 (US) H01M2/0202 (US) H01M2/0237 (US) H01M2/04 (EP,US) H01M2/0404 (US) H01M2/043 (US) H01M2/0473 (EP) H01M2/0486 (EP) H01M2/08 (EP) H01M2/12 (EP) H01M2/1241 (EP) H01M2/34 (EP) H01M2/345 (EP,US) H01M2200/20 (US) H01M2220/20 (US) H01M2220/30 (US)	2015-08-24 2018-10-17	2015-08-19	052006918
225. SECONDARY BATTERY									
SECONDARY BATTERY	SEONG JAE-IL YOSHIO HIDEAKI YUN JIWON	SAMSUNG SDI CO LTD	JP2015015233A JP6423602B2	2013-07-05	H01M2/02	H01M2/02 (US) H01M2/0217 (EP,CN,US) H01M2/0207 (US) H01M2002/0205 (US) H01M2002/0297 (EP,US) H01M2200/20 (US)	2015-01-22 2018-11-14	2015-01-07	049510045
226. SECONDARY BATTERY									
SECONDARY BATTERY	KIM DOEK-CHUNG KIM TAEAHN	SAMSUNG SDI CO LTD	JP2015204285A JP6574084B2	2014-04-11	H01M2/04 H01M2/06 H01M2/08 H01M2/26 H01M2/30 H01M2/34	H01M2/06 (EP,US) H01M2/08 (EP,US) H01M2/1264 (EP,US) H01M2/30 (EP,US) H01M10/0525 (EP,US) H01M2/0202 (EP,US) H01M2/0237 (EP,US) H01M2220/20 (EP,US) H01M2220/30 (EP,US) Y02E60/10	2015-11-16 2019-09-11	2015-10-15	054265800

(EP,US) Y02T10/70 (US)									
227. POSITIVE ELECTRODE ACTIVE MATERIAL, POSITIVE ELECTRODE AND LITHIUM BATTERY INCLUDING THE POSITIVE ELECTRODE ACTIVE MATERIAL, AND METHOD OF MANUFACTURING THE POSITIVE ELECTRODE ACTIVE MATERIAL									
Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
POSITIVE ELECTRODE ACTIVE MATERIAL, POSITIVE ELECTRODE AND LITHIUM BATTERY INCLUDING THE POSITIVE ELECTRODE ACTIVE MATERIAL, AND METHOD OF MANUFACTURING THE POSITIVE ELECTRODE ACTIVE MATERIAL	JE HYUN-JOO KIM CHANG-WOOK KIM JI-HYUN LIU RONGZAN	SAMSUNG SDI CO LTD	JP2015149275A JP6635656B2	2014-02-07	H01M10/052 H01M4/36 H01M4/48 H01M4/58 H01M4/505 H01M4/525	H01M10/0525 (US) H01M4/0402 (US) H01M4/0471 (US) H01M4/13 (EP,US) H01M4/1391 (US) H01M4/366 (EP,US) H01M4/485 (US) H01M4/505 (US) H01M4/525 (US) H01M10/052 (EP,US) H01M2220/20 (US) H01M2220/30 (US) H01M4/139 (EP,US) Y02E60/10 (EP,US)	2015-08-20 2020-01-29	2015-08-12	052394148
228. ELECTRIC POWER AUXILIARY SYSTEM									
Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
ELECTRIC POWER AUXILIARY SYSTEM	SHIMIZU YUKIHIRO	SAMSUNG SDI CO LTD	JP2016054607A JP6386308B2	2014-09-03	H02J3/32 H02J3/38 H02J7/34		2016-04-14 2018-09-05	2016-03-11	055582977
229. NEGATIVE ELECTRODE ACTIVE MATERIAL LAYER FOR LITHIUM ION SECONDARY BATTERIES AND LITHIUM ION SECONDARY BATTERY									
Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
NEGATIVE ELECTRODE ACTIVE MATERIAL LAYER FOR LITHIUM ION SECONDARY BATTERIES AND LITHIUM ION SECONDARY BATTERY	FUKUCHI IWAO TANAKA TADAYOSHI	SAMSUNG SDI CO LTD	JP2015103449A JP6395371B2	2013-11-26	H01M4/13 H01M4/139 H01M4/133 H01M4/134 H01M4/1393 H01M4/1395 H01M4/62	H01M10/0525 (KR) H01M4/1393 (KR) H01M4/1395 (KR) H01M4/386 (KR) H01M4/587 (KR) H01M4/621 (KR) H01M4/624 (KR) Y02E60/10 (KR) Y02P70/50 (EP)	2015-06-04 2018-09-26	2015-06-03	053378982
230. BELT WITH BUILT-IN BATTERY									
Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
BELT WITH BUILT-IN BATTERY	ENDO TAKAHIRO FUKAHORI HIRONORI TAKANO YASUO	SAMSUNG SDI CO LTD	JP2015115196A JP6362065B2	2013-12-11	A44C5/00 H01M10/0565 H01M2/10 H01M2/20		2015-06-22 2018-07-25	2015-06-19	053515893
231. SECONDARY BATTERY AND MANUFACTURING METHOD THEREOF									
Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
SECONDARY BATTERY AND MANUFACTURING METHOD THEREOF	KIM KI-HYUN	SAMSUNG SDI CO LTD	JP2015220229A JP6630492B2	2014-05-15	H01M2/30 H01M2/04 H01M2/12 H01M2/34	H01M10/04 (US) H01M10/058 (CN) H01M2/04 (CN) H01M2/043 (US) H01M2/12 (EP,US) H01M2/1241 (CN)	2015-12-07 2020-01-15	2015-11-18	053177254

						H01M2/34 (EP,US) Y10T29/4911 (EP,US)			
232. DEVICE FOR WINDING ELECTRODE PLATE									
Title DEVICE FOR WINDING ELECTRODE PLATE	Inventors CHO GIBONG CHOI KYUNGTAEK HONG JINUK HWANG SOONHAK KIM DONGWOO KIM KYUHO LEE SEUNG-HWAN MAENG SANGJIN MIN JUNGKI	Applicants SAMSUNG SDI CO LTD	Publication number JP2016035892A JP6529745B2	Earliest priority 2014-08-01	IPC H01M10/04	CPC B65H18/08 (CN) B65H23/00 (CN) B65H23/28 (EP,US) B65H39/02 (CN) H01M10/0409 (EP,US) B65H2301/414324 (EP,US) B65H2301/414326 (EP,US) B65H2404/147 (EP,US) B65H2404/6111 (EP,US) B65H2404/7431 (EP,US) B65H2601/22 (EP,US) B65H2701/132 (EP,US) B65H2701/173 (EP,US) B65H2801/72 (EP,US) H01M2220/20 (EP,US) H01M2220/30 (EP,US)	Publication date 2016-03-17 2019-06-12	Earliest publication 2016-02-04	Family number 055180953
233. SECONDARY BATTERY									
Title SECONDARY BATTERY	Inventors KWAK SEUNG-HO KWON MIN- HYEONG SEO YONG-CHUL	Applicants SAMSUNG SDI CO LTD	Publication number JP2015005505A JP6444064B2	Earliest priority 2013-06-19	IPC H01G11/82 H01M10/04 H01M2/26 H01M2/34	CPC H01M10/049 (EP,US) H01M2/0217 (EP,US) H01M2/06 (EP,CN,US) H01M2/18 (EP,US) H01M2/20 (CN) H01M2/263 (EP,US) H01M2/30 (CN)	Publication date 2015-01-08 2018-12-26	Earliest publication 2014-12-24	Family number 050112848
234. NONAQUEOUS ELECTROLYTE SECONDARY BATTERY									
Title NONAQUEOUS ELECTROLYTE SECONDARY BATTERY	Inventors TAKANO YASUO	Applicants SAMSUNG SDI CO LTD	Publication number JP2015103405A JP6234186B2	Earliest priority 2013-11-25	IPC H01M10/052 H01M10/0565 H01M2/02 H01M4/13 H01M4/62 H01M10/0566 H01M10/058 H01M2/16	CPC	Publication date 2015-06-04 2017-11-22	Earliest publication 2015-06-04	Family number 053378946

235. SECONDARY BATTERY									
Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
SECONDARY BATTERY	KWAK SEUNG-HO	SAMSUNG SDI CO LTD	JP2015204284A JP6441598B2	2014-04-11	H01M2/04 H01M2/34	H01M2/0473 (EP,US) H01M2/345 (EP,US) H01M2200/20 (EP,US)	2015-11-16 2018-12-19	2015-10-14	052544393
236. FLEXIBLE SECONDARY BATTERY									
Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
FLEXIBLE SECONDARY BATTERY	SOHN JU-HEE SONG HYUN- HWA SUH JUN- WON YI JEONG- DOO	SAMSUNG SDI CO LTD	JP2015118938A JP6669377B2	2013-12-16	H01M10/04 H01M2/02	H01M10/058 (CN) H01M2/0275 (EP,US) H01M2/0287 (EP,US) H01M2/08 (US) H01M2/14 (EP,US)	2015-06-25 2020-03-18	2015-06-17	052023404
237. ELECTRODE ASSEMBLY AND SECONDARY BATTERY INCLUDING THE SAME									
Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
ELECTRODE ASSEMBLY AND SECONDARY BATTERY INCLUDING THE SAME	SOHN JU-HEE SONG HYUN- HWA SUH JUN- WON YI JEONG- DOO	SAMSUNG SDI CO LTD	JP2016062892A JP6669452B2	2014-09-17	H01M10/04 H01M10/0585 H01M2/26 H01M4/02 H01M4/13	H01M10/0436 (US) H01M10/0459 (CN) H01M10/052 (EP) H01M10/0585 (EP) H01M2/0212 (US) H01M2/1673 (US) H01M2/266 (EP) H01M2/34 (CN) H01M4/70 (US) H01M2220/30 (US)	2016-04-25 2020-03-18	2016-03-17	053887034
238. ADHESIVE COMPOSITION, OPTICAL MEMBER AND ADHESIVE SHEET									
Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
ADHESIVE COMPOSITION, OPTICAL MEMBER AND ADHESIVE SHEET	OGAWA HIROSHI SUWA TATSUHIRO	SAMSUNG SDI CO LTD	JP2016035007A JP6383211B2	2014-08-01	C08F220/12 C09J11/06 C09J133/02 C09J133/04 C09J163/00 C09J175/04 C09J7/00 G02B5/30		2016-03-17 2018-08-29	2016-02-15	055357263
239. BATTERY MANAGEMENT SYSTEM									
Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
BATTERY MANAGEMENT SYSTEM	GU JAE SUNG JANG JIN-SOO	SAMSUNG SDI CO LTD	JP2015154711A	2014-02-10	H02H7/18 H02J7/00	H02H7/18 (EP,US) H02J7/0021 (EP,US) H02J7/0031 (EP,US) G01R19/16542 (EP,US) H02J7/00304 (EP,US)	2015-08-24	2015-08-12	052345080
240. NEGATIVE ELECTRODE FOR LITHIUM ION SECONDARY BATTERY AND LITHIUM ION SECONDARY BATTERY									
Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number

NEGATIVE ELECTRODE FOR LITHIUM ION SECONDARY BATTERY AND LITHIUM ION SECONDARY BATTERY	YASHIRO MASANARI	SAMSUNG SDI CO LTD	JP2016110876A	2014-12-08	H01M4/133 H01M4/134 H01M4/36 H01M4/38 H01M4/587 H01M4/62		2016-06-20	2016-06-16	056124590
--	---------------------	-----------------------	---------------	------------	---	--	------------	------------	-----------

241. BATTERY PACK, DEVICE HAVING BATTERY PACK, AND MANAGEMENT METHOD FOR BATTERY PACK

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
BATTERY PACK, DEVICE HAVING BATTERY PACK, AND MANAGEMENT METHOD FOR BATTERY PACK	DMITRY NIKITENKOV KIM JONG-HOON PARK JUNG-PIL	SAMSUNG SDI CO LTD	JP2015052590A	2013-09-09	G01R31/36 H01M10/48	G01R31/36 (KR) G01R31/382 (KR) G01R31/392 (EP,US) H01M10/48 (EP,KR) G01R31/3842 (EP) G01R31/389 (EP) H01M2010/4271 (EP) H01M2220/20 (EP)	2015-03-19	2015-03-11	051483342

242. SECONDARY BATTERY

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
SECONDARY BATTERY	PARK JUNG-HYUN ROH SAE-WEON SONG SUNG-HO	SAMSUNG SDI CO LTD	JP2014154548A JP6319831B2	2013-02-04	H01M2/02 H01M2/04 H01M2/30	H01M2/0473 (EP,CN,US) H01M2/30 (EP,CN,US)	2014-08-25 2018-05-09	2014-08-06	049917619

243. BATTERY ARRAY AND BATTERY PACK HAVING THE SAME

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
BATTERY ARRAY AND BATTERY PACK HAVING THE SAME	HWANG KUN-RYUL	SAMSUNG SDI CO LTD	JP2012049131A JP5881993B2	2010-08-26	H01M2/10 H01M2/20	H01M10/425 (EP,US) H01M2/105 (EP,US) H01M2/1061 (EP,US) H01M2/204 (EP,US)	2012-03-08 2016-03-09	2012-02-29	044741211

244. RECHARGEABLE BATTERY HAVING COVER

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
RECHARGEABLE BATTERY HAVING COVER	CHOE SANG-SIN LEE HYUN-SOO OH JEONG-WON	SAMSUNG SDI CO LTD	JP2016162755A JP6669447B2	2015-03-03	H01M10/04 H01M2/02 H01M2/26 H01M2/30	H01M10/0431 (EP,KR,US) H01M10/052 (CN) H01M10/0587 (KR) H01M2/02 (CN) H01M2/0217 (KR) H01M2/0237 (EP,CN,US) H01M2/0262 (EP,US) H01M2/027 (EP,KR,US) H01M2/0285 (EP,US) H01M2/04 (CN) H01M2/0426 (EP,US) H01M2/043 (CN) H01M2/0439 (EP,US)	2016-09-05 2020-03-18	2016-09-05	054707699

SECONDARY BATTERY INCLUDING THE SAME	MOON JONG SEOK					(EP,US) C01G53/006 (EP,US) C01G53/50 (EP,US) H01M10/052 (EP,US) H01M10/0525 (CN) H01M4/364 (EP,CN,US) H01M4/366 (CN) H01M4/505 (EP,CN,US) H01M4/525 (EP,US) C01P2002/50 (EP,US) C01P2002/52 (EP,US) Y02T10/70 (EP,US)			
--------------------------------------	----------------	--	--	--	--	---	--	--	--

249. SECONDARY BATTERY

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
SECONDARY BATTERY	KIM IK-KYU YOON SEOK JUN	SAMSUNG SDI CO LTD	JP2014132552A JP6238189B2	2013-01-03	H01M10/04 H01M2/02 H01M2/08 H01M2/26 H01M2/30 H01M2/34	H01M10/0422 (EP,CN,US) H01M10/0431 (EP,CN,US) H01M2/022 (CN) H01M2/0413 (EP,CN,US) H01M2/26 (CN) H01M2/263 (EP,US) H01M2/022 (EP,US)	2014-07-17 2017-11-29	2014-07-03	049882950

250. SECONDARY BATTERY AND MODULE THEREOF

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
SECONDARY BATTERY AND MODULE THEREOF	BYUN SANG-WON JANG MYUNG-JAE LEE CHI-YOUNG	SAMSUNG SDI CO LTD	JP2016157675A	2015-02-24	H01M2/04 H01M2/06 H01M2/10 H01M2/30	H01M10/04 (CN,KR) H01M2/02 (CN) H01M2/04 (CN) H01M2/0473 (KR) H01M2/0482 (KR) H01M2/06 (EP,US) H01M2/08 (KR) H01M2/12 (CN) H01M2/14 (CN) H01M2/26 (KR) H01M2/30 (EP,US) H01M2/307 (KR) H01M4/661 (KR) H01M2/0217 (EP,US) Y02E60/12 (KR)	2016-09-01	2016-08-25	055236306

251. LITHIUM ION SECONDARY BATTERY, PRODUCTION METHOD OF POSITIVE ELECTRODE ACTIVE MATERIAL FOR LITHIUM ION SECONDARY BATTERY, AND MANUFACTURING METHOD OF POSITIVE ELECTRODE FOR LITHIUM ION SECONDARY BATTERY

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
-------	-----------	------------	--------------------	-------------------	-----	-----	------------------	----------------------	---------------

LITHIUM ION SECONDARY BATTERY, PRODUCTION METHOD OF POSITIVE ELECTRODE ACTIVE MATERIAL FOR LITHIUM ION SECONDARY BATTERY, AND MANUFACTURING METHOD OF POSITIVE ELECTRODE FOR LITHIUM ION SECONDARY BATTERY	NAKANO MASATSUGU NOMURA KEISUKE TAKEI YUKI	SAMSUNG SDI CO LTD	JP2015115105A	2013-12-09	H01M2/16 H01M4/131 H01M4/1391 H01M4/36 H01M4/505 H01M4/525	H01M10/0525 (KR) H01M2/1646 (KR) H01M2/1673 (KR) H01M2/1686 (KR) H01M4/0404 (KR) H01M4/0471 (KR) H01M4/131 (KR) H01M4/1391 (KR) H01M4/366 (KR) H01M4/485 (KR) H01M4/525 (KR) Y02E60/10 (KR)	2015-06-22	2015-06-17	053515170
--	--	--------------------	---------------	------------	---	---	------------	------------	-----------

252. SECONDARY BATTERY

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
SECONDARY BATTERY	ROH SAE-WEON	SAMSUNG SDI CO LTD	JP2014120469A JP6737562B2	2012-12-18	H01M10/052 H01M10/0566 H01M10/0569 H01M10/058 H01M2/02 H01M2/04 H01M2/34	H01M10/0436 (KR) H01M2/0217 (KR) H01M2/0473 (KR) H01M2300/0025 (KR) Y02E60/10 (KR)	2014-06-30 2020-08-12	2014-06-27	051130704

253. NEGATIVE ELECTRODE ACTIVE MATERIAL, METHOD FOR MANUFACTURING THE SAME, AND LITHIUM SECONDARY BATTERY CONTAINING THE SAME

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
NEGATIVE ELECTRODE ACTIVE MATERIAL, METHOD FOR MANUFACTURING THE SAME, AND LITHIUM SECONDARY BATTERY CONTAINING THE SAME	JEONG CHWA-YEONG KIM JAE-MYUNG LEE JONG-HEE YU YONG-MI	SAMSUNG SDI CO LTD	JP2012221953A JP6067989B2	2011-04-05	H01M10/0525 H01M10/0566 H01M4/485 H01M10/052	C01G23/003 (EP,US) H01M10/052 (KR) H01M4/1391 (KR) H01M4/48 (KR) H01M4/485 (EP,KR,US) H01M4/525 (KR) C01P2002/72 (EP,US) C01P2002/74 (EP,US) Y02E60/10 (US)	2012-11-12 2017-01-25	2012-10-10	045571467

254. POSITIVE ELECTRODE FOR WOUND TYPE LITHIUM ION SECONDARY BATTERY, NEGATIVE ELECTRODE FOR WOUND TYPE LITHIUM ION SECONDARY BATTERY, AND WOUND TYPE LITHIUM ION SECONDARY BATTERY

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
POSITIVE ELECTRODE FOR WOUND TYPE LITHIUM ION SECONDARY BATTERY, NEGATIVE ELECTRODE FOR WOUND TYPE LITHIUM ION SECONDARY BATTERY, AND WOUND TYPE LITHIUM ION SECONDARY BATTERY	FUKAHORI HIRONORI NOMURA KEISUKE	SAMSUNG SDI CO LTD	JP2016126896A	2014-12-26	H01M10/052 H01M10/0587 H01M4/13 H01M4/64 H01M4/66 H01M4/74 H01M4/75		2016-07-11	2016-07-06	056358093

255. SECONDARY BATTERY

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
SECONDARY BATTERY	KIM DOEK-CHUNG	SAMSUNG SDI CO LTD	JP2016004777A JP6595162B2	2014-06-17	H01M10/04 H01M2/26 H01M2/30 H01M2/34	H01M10/0431 (EP,US) H01M10/0445 (EP,US) H01M2/02 (US) H01M2/0242	2016-01-12 2019-10-23	2015-12-17	053180637

						(EP,US) H01M2/0277 (US) H01M2/04 (US) H01M2/14 (EP,US) H01M2/30 (US) H01M10/052 (EP,US) H01M10/0587 (EP,US)			
--	--	--	--	--	--	--	--	--	--

256. WOUND TYPE SECONDARY BATTERY SEPARATOR, METHOD FOR MANUFACTURING WOUND TYPE SECONDARY BATTERY SEPARATOR, FLAT WOUND DEVICE, WOUND TYPE SECONDARY BATTERY, AND METHOD FOR MANUFACTURING WOUND TYPE SECONDARY BATTERY

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
WOUND TYPE SECONDARY BATTERY SEPARATOR, METHOD FOR MANUFACTURING WOUND TYPE SECONDARY BATTERY SEPARATOR, FLAT WOUND DEVICE, WOUND TYPE SECONDARY BATTERY, AND METHOD FOR MANUFACTURING WOUND TYPE SECONDARY BATTERY	HOSHIBA HIROHARU	SAMSUNG SDI CO LTD	JP2017162699A	2016-03-10	H01M10/04 H01M10/0566 H01M2/16		2017-09-14	2017-09-14	059854172

257. NONAQUEOUS ELECTROLYTE SECONDARY BATTERY SEPARATOR, NONAQUEOUS ELECTROLYTE SECONDARY BATTERY, AND METHOD FOR MANUFACTURING NONAQUEOUS ELECTROLYTE SECONDARY BATTERY

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
NONAQUEOUS ELECTROLYTE SECONDARY BATTERY SEPARATOR, NONAQUEOUS ELECTROLYTE SECONDARY BATTERY, AND METHOD FOR MANUFACTURING NONAQUEOUS ELECTROLYTE SECONDARY BATTERY	HOSHIBA HIROHARU TAKATORI YUSUKE	SAMSUNG SDI CO LTD	JP2017152207A	2016-02-24	H01M10/0566 H01M10/0587 H01M2/16		2017-08-31	2017-08-31	059740979

258. BATTERY PACK

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
BATTERY PACK	JEON MOON SOO KIM SEUNGIL PARK GANGYA	SAMSUNG SDI CO LTD	JP2017162806A	2016-03-08	H01M2/10 H01M2/20 H01M2/30	H01M10/0422 (CN) H01M10/425 (EP,US) H01M10/482 (US) H01M10/486 (US) H01M2/105 (EP,US) H01M2/204 (EP,US) H01M2/206 (CN) H01M2/22 (CN) H01R11/01 (CN) H01R11/05 (CN) H02J7/0013 (US) H02J7/0068 (US) H02J7/007 (US)	2017-09-14	2017-09-13	058192246

						H01M2220/20 (CN) H01M2220/30 (EP,US)			
259. LITHIUM SECONDARY BATTERY									
Title LITHIUM SECONDARY BATTERY	Inventors HA JEONG-KI HWANG DUCKCHUL RI YOHAN SONG KEUN-WON	Applicants SAMSUNG SDI CO LTD	Publication number JP2013161784A JP6164578B2	Earliest priority 2012-02-06	IPC H01M10/052 H01M10/0566 H01M10/058 H01M2/16 H01M4/13 H01M4/62	CPC H01M2/1606 (EP,US) H01M2/1613 (EP,US) H01M2/166 (EP,US) H01M2/1666 (EP,US) H01M2/1673 (EP,US) H01M4/622 (EP,US) H01M4/623 (EP,US)	Publication date 2013-08-19 2017-07-19	Earliest publication 2013-08-07	Family number 047471585
260. SUPPORTER FOR FUEL CELL, AND ELECTRODE FOR FUEL CELL, MEMBRANE-ELECTRODE ASSEMBLY FOR FUEL CELL, AND FUEL CELL SYSTEM WHICH INCLUDE THE SAME									
Title SUPPORTER FOR FUEL CELL, AND ELECTRODE FOR FUEL CELL, MEMBRANE-ELECTRODE ASSEMBLY FOR FUEL CELL, AND FUEL CELL SYSTEM WHICH INCLUDE THE SAME	Inventors KIM HEE-TAK KIM JUN-YOUNG LEE SUNG CHUL MIN MYOUNG-KI PARK YOHAN	Applicants SAMSUNG SDI CO LTD	Publication number JP2014007158A JP6328889B2	Earliest priority 2012-06-26	IPC H01M4/96 H01M8/10 H01M4/88	CPC H01M4/9016 (CN) H01M4/9083 (EP,US) H01M4/921 (EP,US) H01M4/926 (EP,US) H01M4/96 (CN,US) H01M8/0234 (CN) H01M8/1018 (CN) B82Y30/00 (US) H01M4/8657 (EP,US) H01M4/8828 (EP,US) H01M4/8842 (EP,US) H01M4/925 (EP,US) Y02E60/50 (US) Y10S977/773 (EP,US) Y10S977/948 (EP,US)	Publication date 2014-01-16 2018-05-23	Earliest publication 2013-12-26	Family number 047115555
261. ANISOTROPIC CONDUCTIVE FILM, CURED ARTICLE THEREOF, AND MANUFACTURING METHOD THEREFOR									
Title ANISOTROPIC CONDUCTIVE FILM, CURED ARTICLE THEREOF, AND MANUFACTURING METHOD THEREFOR	Inventors SUWA TATSUHIRO	Applicants SAMSUNG SDI CO LTD	Publication number JP2019114510A	Earliest priority 2017-12-26	IPC H01B1/22 H01B5/16 H05K1/14 H05K3/32	CPC	Publication date 2019-07-11	Earliest publication 2019-07-04	Family number 067223732
262. BATTERY PACK									
Title BATTERY PACK	Inventors AHN SANG-KYU	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number

		SAMSUNG SDI CO LTD	JP2012142289A JP6126784B2	2011-01-05	H01M10/50 H01M2/10 H01M10/613 H01M10/6553 H01M2/30 H01M2/34 H01M2/30 H01M2/34	H01M2/021 (EP,US) H01M2/0212 (EP,US) H01M2/06 (EP,US) H01M2/1061 (EP,US) H01M2/30 (EP,US) H01M2/34 (EP,US)	2012-07-26 2017-05-10	2012-07-05	045445933
--	--	-----------------------	------------------------------	------------	--	---	--------------------------	------------	-----------

263. COMPOSITE POSITIVE ELECTRODE ACTIVE MATERIAL, METHOD OF PREPARING THE SAME, AND POSITIVE ELECTRODE AND LITHIUM BATTERY CONTAINING THE COMPOSITE POSITIVE ELECTRODE ACTIVE MATERIAL

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
COMPOSITE POSITIVE ELECTRODE ACTIVE MATERIAL, METHOD OF PREPARING THE SAME, AND POSITIVE ELECTRODE AND LITHIUM BATTERY CONTAINING THE COMPOSITE POSITIVE ELECTRODE ACTIVE MATERIAL	EVGENIYA MATULEVICH KANG SUN-HO KIM CHANG-WOOK LIU RONGZAN PARK JUN-SEOK SONG JAE-HYOK	SAMSUNG SDI CO LTD	JP2014170739A JP6320771B2	2013-02-28	H01M10/052 H01M4/36 H01M4/485 H01M4/505 H01M4/525 C01G53/00	C01G45/1257 (EP,KR,US) C01G53/50 (EP,KR,US) H01M4/1315 (EP,CN,KR,US) H01M4/1391 (KR) H01M4/485 (EP,CN,KR,US) H01M4/505 (EP,CN,KR,US) H01M4/525 (EP,CN,KR,US) C01P2002/50 (EP,KR,US) C01P2002/52 (EP,KR,US) C01P2004/04 (EP,KR,US) H01M4/1391 (EP,CN,US) Y02E60/10 (US)	2014-09-18 2018-05-09	2014-08-28	048900847

264. NEGATIVE ELECTRODE ACTIVE MATERIAL, METHOD OF PREPARING THE SAME, NEGATIVE ELECTRODE FOR LITHIUM SECONDARY BATTERY INCLUDING THE NEGATIVE ELECTRODE ACTIVE MATERIAL, AND LITHIUM SECONDARY BATTERY INCLUDING THE NEGATIVE ELECTRODE

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
NEGATIVE ELECTRODE ACTIVE MATERIAL, METHOD OF PREPARING THE SAME, NEGATIVE ELECTRODE FOR LITHIUM SECONDARY BATTERY INCLUDING THE NEGATIVE ELECTRODE ACTIVE MATERIAL, AND LITHIUM SECONDARY BATTERY INCLUDING THE NEGATIVE ELECTRODE	JEONG CHANGUI KIM JAE-HYUK KWON SEUNG-UK LEE CHUN-GYOO MOON SUNG HWAN PARK YO HAN SAI SHOSHO SUH SOON-SUNG YURY MATULEVICH	SAMSUNG SDI CO LTD	JP2013161786A JP6292749B2	2012-02-01	H01M4/36 H01M4/38	C22C21/02 (KR) C22C28/00 (EP,US) C22C37/10 (KR) H01B1/023 (EP,KR,US) H01M10/0525 (EP,KR,US) H01M4/04 (US) H01M4/134 (EP,KR,US) H01M4/1395 (EP,KR,US) H01M4/386 (EP,KR,US) B82Y30/00 (US) Y02E60/10 (US) Y02P70/50 (EP,KR,US)	2013-08-19 2018-03-14	2013-08-01	047257599

						Y02T10/70 (EP,KR,US)			
265. SOLAR CELL									
Title SOLAR CELL	Inventors HA KYOUNG JIN MOON SUNG-IL PARK SANG HEE	Applicants SAMSUNG SDI CO LTD	Publication number JP2019106525A	Earliest priority 2017-12-08	IPC C03C8/24 H01L31/0224 H01L31/0236	CPC H01B1/22 (EP,US) H01L31/022425 (EP,US) H01L31/02363 (EP) Y02E10/547 (EP)	Publication date 2019-06-27	Earliest publication 2019-06-12	Family number 062947983
266. CURRENT COLLECTOR FOR FLEXIBLE SECONDARY BATTERY, ELECTRODE FOR FLEXIBLE SECONDARY BATTERY, ELECTRODE STACKED ASSEMBLY FOR FLEXIBLE SECONDARY BATTERY, FLEXIBLE SECONDARY BATTERY AND METHOD OF MANUFACTURING ELECTRODE FOR FLEXIBLE SECONDARY BATTERY									
Title CURRENT COLLECTOR FOR FLEXIBLE SECONDARY BATTERY, ELECTRODE FOR FLEXIBLE SECONDARY BATTERY, ELECTRODE STACKED ASSEMBLY FOR FLEXIBLE SECONDARY BATTERY, FLEXIBLE SECONDARY BATTERY AND METHOD OF MANUFACTURING ELECTRODE FOR FLEXIBLE SECONDARY BATTERY	Inventors KAWASE KENICHI TSUCHIYA HAJIME	Applicants SAMSUNG SDI CO LTD	Publication number JP2017168217A	Earliest priority 2016-03-14	IPC H01M4/02 H01M4/04 H01M4/66	CPC	Publication date 2017-09-21	Earliest publication 2017-09-21	Family number 059913425
267. NICKEL-BASED ACTIVE MATERIAL FOR LITHIUM SECONDARY BATTERY, PRODUCTION METHOD OF THE SAME, AND LITHIUM SECONDARY BATTERY INCLUDING THE POSITIVE ELECTRODE CONTAINING THE SAME									
Title NICKEL-BASED ACTIVE MATERIAL FOR LITHIUM SECONDARY BATTERY, PRODUCTION METHOD OF THE SAME, AND LITHIUM SECONDARY BATTERY INCLUDING THE POSITIVE ELECTRODE CONTAINING THE SAME	Inventors CHANG DONGGYU KIM JONG-MIN	Applicants SAMSUNG SDI CO LTD	Publication number JP2018098205A	Earliest priority 2016-12-08	IPC H01M4/505 H01M4/525	CPC C01G53/42 (EP) C01G53/50 (EP) H01M10/052 (CN) H01M2/022 (US) H01M4/131 (EP,US) H01M4/1391 (US) H01M4/505 (EP,CN,US) H01M4/525 (EP,CN) C01P2006/10 (EP) C01P2006/16 (EP) H01M10/052 (EP,US) H01M2004/021 (CN) H01M2004/028 (US)	Publication date 2018-06-21	Earliest publication 2018-06-13	Family number 060629557
268. ANODE COMPOSITION FOR LITHIUM SECONDARY BATTERY, ANODE FOR LITHIUM SECONDARY BATTERY, AND LITHIUM SECONDARY BATTERY									
Title ANODE COMPOSITION FOR LITHIUM SECONDARY BATTERY, ANODE FOR LITHIUM SECONDARY BATTERY, AND LITHIUM SECONDARY BATTERY	Inventors HAN JEONG-WOO ISHIDA SUMIHITO KIM YOUNG-KEE PARK TAEK-IL	Applicants SAMSUNG SDI CO LTD	Publication number JP2013232414A JP6399731B2	Earliest priority 2012-04-30	IPC H01M4/587 H01M4/62 H01M10/0525 H01M4/133 H01M4/36	CPC H01M10/052 (KR) H01M10/0525 (EP,KR,US) H01M4/133 (EP,KR,US)	Publication date 2013-11-14 2018-10-03	Earliest publication 2013-10-30	Family number 048190347

AND LITHIUM SECONDARY BATTERY					H01M4/505 H01M4/525 H01M4/58	H01M4/1393 (KR) H01M4/36 (KR) H01M4/587 (EP,KR,US) H01M4/622 (KR) C01B32/00 (EP) H01M2004/027 (EP,KR,US) Y02P70/54 (KR) Y02T10/7011 (KR)			
----------------------------------	--	--	--	--	------------------------------------	---	--	--	--

269. COMPOSITION FOR FORMING TOUCH PANEL ELECTRODE LINES, METHOD FOR FORMING TOUCH PANEL ELECTRODE LINES, AND TOUCH PANEL

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
COMPOSITION FOR FORMING TOUCH PANEL ELECTRODE LINES, METHOD FOR FORMING TOUCH PANEL ELECTRODE LINES, AND TOUCH PANEL	CHOI CHANG GEON KOO AH REUM LEE WOO SUNG PARK CHANG-WON SHIM JAE JOON SHIN YONG WAN	SAMSUNG SDI CO LTD	JP2016201104A	2015-04-08	C08F2/44 C08F2/48 C09D11/52 G03F7/004 G03F7/027 G03F7/031 G03F7/032 G03F7/033 G03F7/40 G06F3/041 H01B1/00 H01B1/20 H01B1/22 H01B13/00	G03F7/0047 (EP) G03F7/027 (EP) G03F7/029 (EP) G03F7/031 (EP) G03F7/0325 (EP) G03F7/033 (EP) G03F7/40 (US) G06F3/044 (EP) G06F2203/04103 (EP,US)	2016-12-01	2016-10-13	057112233

270. FILM STRUCTURE MANUFACTURING METHOD, AND PATTERN FORMATION METHOD

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
FILM STRUCTURE MANUFACTURING METHOD, AND PATTERN FORMATION METHOD	BAEK JAEYEOL HONG SEUNG HEE HWANG SUNMIN JEONG SEULGI KANG SUN-HAE KIM JINHYUNG KIM MIN SU KIM SUNGHWAN KIM YOONA KIM YOUNG MIN LEE CHUNG-HEON NAM YOUNHEE SONG HYUNJI YOON BYERI	SAMSUNG SDI CO LTD	JP2017092457A	2015-10-23	C08G61/02 G03F7/11 G03F7/20 G03F7/26 H01L21/027 H01L21/312 H01L21/768	G03F7/004 (CN) G03F7/09 (CN) G03F7/091 (EP,US) G03F7/11 (EP,CN,US)	2017-05-25	2017-04-27	058558504

271. SECONDARY BATTERY

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
SECONDARY BATTERY	JANG YOUNG-CHEOL	SAMSUNG SDI CO LTD	JP2012190798A JP6175218B2	2011-03-11	H01M10/44 H01M2/02 H01M2/04 H01M2/06 H01M2/36 H01M2/10 H01M2/34	H01M10/4257 (EP,US) H01M2/20 (EP,US) H01M2/22 (EP,US) H01M2200/106 (EP,US)	2012-10-04 2017-08-02	2012-09-12	045656225

272. ANISOTROPIC CONDUCTIVE FILM, LAMINATE FILM CONTAINING THE SAME, AND METHOD FOR PRODUCING THE SAME

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
ANISOTROPIC CONDUCTIVE FILM, LAMINATE FILM	SUWA TATSUHIRO	SAMSUNG SDI CO LTD	JP2018090705A	2016-12-02	B32B27/18 B32B27/38 C08G59/20	H01L2224/83851 (EP)	2018-06-14	2018-06-14	062565300

CONTAINING THE SAME, AND METHOD FOR PRODUCING THE SAME					C08L63/00 H01R11/01				
273. NONAQUEOUS ELECTROLYTE SECONDARY BATTERY PACK									
Title NONAQUEOUS ELECTROLYTE SECONDARY BATTERY PACK	Inventors TAKANO YASUO	Applicants SAMSUNG SDI CO LTD	Publication number JP2014112478A JP6554261B2	Earliest priority 2012-12-05	IPC H01M2/02 H01M2/10 H01M2/26 H01M2/30 H01M2/34	CPC H01M10/0413 (KR) H01M10/0436 (KR) H01M10/0585 (KR) H01M2/0275 (KR) H01M2/0287 (KR) H01M2/26 (KR) H01M2/1016 (KR) Y02E60/10 (KR)	Publication date 2014-06-19 2019-07-31	Earliest publication 2014-06-13	Family number 051126562
274. POROUS HEAT-RESISTANT LAYER COMPOSITION, SEPARATION FILM INCLUDING POROUS HEAT-RESISTANT LAYER, AND ELECTROCHEMICAL BATTERY USING THE SAME									
Title POROUS HEAT- RESISTANT LAYER COMPOSITION, SEPARATION FILM INCLUDING POROUS HEAT-RESISTANT LAYER, AND ELECTROCHEMICAL BATTERY USING THE SAME	Inventors BAE IMHYUCK CHOI JAEHONG JIN MOKYUN KO CHANGHONG SEO DONG-WAN	Applicants SAMSUNG SDI CO LTD	Publication number JP2017191777A	Earliest priority 2016-04-14	IPC B32B5/22 C08J9/42 H01M2/16	CPC C08L101/00 (KR) C09D135/02 (EP,US) H01M10/052 (CN) H01M10/0525 (KR) H01M2/1653 (CN) H01M2/166 (EP,KR,US) H01M2/1686 (EP,CN,US) H01M10/0525 (EP,US) Y02E60/10 (KR)	Publication date 2017-10-19	Earliest publication 2017-10-19	Family number 060040113
275. CHARGING CONTROL DEVICE AND CHARGING CONTROL METHOD									
Title CHARGING CONTROL DEVICE AND CHARGING CONTROL METHOD	Inventors FURUSAWA KENJI MURAOKA MITSUTOSHI MURAYAMA YOSHIYA YOSHIDA TARO	Applicants SAMSUNG SDI CO LTD	Publication number JP2016195501A JP6639796B2	Earliest priority 2015-03-31	IPC B60R16/03 B60R16/033 H01M10/44 H01M10/48 H02J7/00 H02J7/10	CPC	Publication date 2016-11-17 2020-02-05	Earliest publication 2016-11-17	Family number 057323113
276. SYNCHRONOUS MOTOR, AND ROTOR FOR USE IN THE SAME									
Title SYNCHRONOUS MOTOR, AND ROTOR FOR USE IN THE SAME	Inventors FURUSAWA KENJI ISHIKAWA MASAMI MURAOKA MITSUTOSHI MURAYAMA YOSHIYA YAMANE HIROSHI YOSHIDA TARO	Applicants SAMSUNG SDI CO LTD	Publication number JP2015053778A	Earliest priority 2013-09-06	IPC H02K1/22 H02K1/27 H02K21/16	CPC H02K1/276 (KR) H02K21/14 (KR) H02K2213/03 (KR) Y02T10/64 (EP,KR)	Publication date 2015-03-19	Earliest publication 2015-03-17	Family number 052702413
277. ELECTRODE FORMING COMPOSITION, ELECTRODE MANUFACTURED USING THE SAME, AND SOLAR CELL									
Title ELECTRODE FORMING COMPOSITION, ELECTRODE MANUFACTURED USING	Inventors JUNG SEOK HYUN KIM DONG- JOEK KIM JU HEE PARK YOUNG KI SHIN TOICHI	Applicants SAMSUNG SDI CO LTD	Publication number JP2016210962A	Earliest priority 2015-04-28	IPC C08K3/40 C08K5/103 C08L101/00 H01B1/22 H01L31/0224	CPC H01B1/16 (CN) H01B1/22 (CN) H01L31/022425 (CN) H01L31/068	Publication date 2016-12-15	Earliest publication 2016-11-01	Family number 057529758

THE SAME, AND SOLAR CELL						(CN) Y02E10/547 (EP)			
278. NEGATIVE ELECTRODE ACTIVE MATERIAL LAYER FOR NONAQUEOUS ELECTROLYTE SECONDARY BATTERIES, AND NONAQUEOUS ELECTROLYTE SECONDARY BATTERY ARRANGED BY USE THEREOF									
Title NEGATIVE ELECTRODE ACTIVE MATERIAL LAYER FOR NONAQUEOUS ELECTROLYTE SECONDARY BATTERIES, AND NONAQUEOUS ELECTROLYTE SECONDARY BATTERY ARRANGED BY USE THEREOF	Inventors TAKANO YASUO	Applicants SAMSUNG SDI CO LTD	Publication number JP2015103404A JP6406813B2	Earliest priority 2013-11-25	IPC H01M4/13 H01M10/0566 H01M2/16 H01M4/133 H01M4/36 H01M4/48 H01M4/62 H01M4/134	CPC	Publication date 2015-06-04 2018-10-17	Earliest publication 2015-06-04	Family number 053378945
279. RECHARGEABLE BATTERY PACK									
Title RECHARGEABLE BATTERY PACK	Inventors CHO MAN-SIK HWANG KUM-YUL	Applicants SAMSUNG SDI CO LTD	Publication number JP2015138781A JP6490953B2	Earliest priority 2014-01-20	IPC H01M2/10 H01M2/30	CPC H01M2/06 (EP,US) H01M2/08 (EP,US) H01M2/1077 (US) H01M2/20 (EP,US) H01M2/26 (EP,US) H01M2/30 (EP,US) H01M2220/20 (US)	Publication date 2015-07-30 2019-03-27	Earliest publication 2015-07-22	Family number 051987079
280. BATTERY RACK AND METHOD OF DRIVING THE SAME									
Title BATTERY RACK AND METHOD OF DRIVING THE SAME	Inventors KIM SUNG-JUNG	Applicants SAMSUNG SDI CO LTD	Publication number JP2014230488A JP6522890B2	Earliest priority 2013-05-23	IPC H01M10/44 H01M10/48 H02J7/02	CPC G01R31/382 (US) H02J7/0014 (US) H02J7/0016 (EP,US) H02J7/0022 (US) G01R31/3842 (EP,US) G01R31/396 (EP,US)	Publication date 2014-12-08 2019-05-29	Earliest publication 2014-11-26	Family number 050478711
281. SEPARATOR, LITHIUM BATTERY INCLUDING THE SAME, METHOD OF MANUFACTURING SEPARATOR, AND METHOD OF MANUFACTURING LITHIUM BATTERY									
Title SEPARATOR, LITHIUM BATTERY INCLUDING THE SAME, METHOD OF MANUFACTURING SEPARATOR, AND METHOD OF MANUFACTURING LITHIUM BATTERY	Inventors JO YUNKYUNG KIM CHAN-JUNG KIM IN KIM YOUNG-SU MOON JUNG JIN PARK NA RAE SON SUK JUNG	Applicants SAMSUNG SDI CO LTD	Publication number JP2015099776A JP6659081B2	Earliest priority 2013-11-19	IPC H01M10/052 H01M10/0563 H01M10/0585 H01M10/0587 H01M2/16	CPC H01M10/052 (US) H01M10/058 (EP,CN,US) H01M10/0585 (US) H01M10/0587 (US) H01M2/14 (CN) H01M2/145 (EP,CN,US) H01M2/16 (CN) H01M2/162 (US) H01M2/166 (EP,US) H01M2/168 (EP) H01M2/1686	Publication date 2015-05-28 2020-03-04	Earliest publication 2015-05-20	Family number 051951625

						(EP,US) H01M2/18 (CN) H01M10/0525 (EP) Y10T29/49108 (EP,US)			
--	--	--	--	--	--	--	--	--	--

282. BATTERY MODULE AND METHOD OF MANUFACTURING THE SAME

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
BATTERY MODULE AND METHOD OF MANUFACTURING THE SAME	BAE MIN-CHEOL CHOI HONG-KEUN JEONG IK-JAE LEE JIHO NOH KYOUNG-HWAN	SAMSUNG SDI CO LTD	JP2015149282A JP6566544B2	2014-02-07	H01M2/20 H01M2/30	B23K26/20 (EP,US) B23K31/02 (US) H01M2/206 (EP,US) H01M2/30 (EP,US) B23K2101/38 (EP,US) H01M2220/20 (EP,US)	2015-08-20 2019-08-28	2015-08-12	051298537

283. SECONDARY BATTERY

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
SECONDARY BATTERY	KANG SHIN GUN	SAMSUNG SDI CO LTD	JP2015162460A JP6647775B2	2014-02-27	H01M2/04 H01M2/30 H01M2/06 H01M2/22	H01M2/30 (EP,US) H01M2/0473 (EP,US) H01M2/22 (EP,US)	2015-09-07 2020-02-14	2015-08-27	052133982

284. AQUEOUS SLURRY FOR LITHIUM ION SECONDARY BATTERY NEGATIVE ELECTRODE, NEGATIVE ELECTRODE ACTIVE MATERIAL LAYER FOR LITHIUM ION SECONDARY BATTERY, AND LITHIUM ION SECONDARY BATTERY

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
AQUEOUS SLURRY FOR LITHIUM ION SECONDARY BATTERY NEGATIVE ELECTRODE, NEGATIVE ELECTRODE ACTIVE MATERIAL LAYER FOR LITHIUM ION SECONDARY BATTERY, AND LITHIUM ION SECONDARY BATTERY	FUKUCHI IWAO TANAKA TADAYOSHI	SAMSUNG SDI CO LTD	JP2015115109A JP6412689B2	2013-12-09	H01M4/13 H01M4/139 H01M4/36 H01M4/62 H01M4/133 H01M4/134	H01M10/0525 (KR) H01M4/386 (KR) H01M4/387 (KR) H01M4/587 (KR) H01M4/622 (KR) H01M4/625 (KR) Y02E60/10 (KR)	2015-06-22 2018-10-24	2015-06-17	053515178

285. SECONDARY BATTERY PACK

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
SECONDARY BATTERY PACK	AHN BYUNG-KOOK	SAMSUNG SDI CO LTD	JP2015037072A JP6319879B2	2013-08-13	H01M2/10	H01M10/425 (EP,CN,US) H01M2/1061 (EP,CN,US) H01M2/1077 (CN) H01M2/0277 (EP,US) H01M2/0285 (EP,US) H01M2/0287 (EP,US) H01M2010/4271 (EP,CN,US) H01M2220/30 (EP,US)	2015-02-23 2018-05-09	2015-02-18	050389357

286. BATTERY UNIT AND BATTERY MODULE

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
BATTERY UNIT AND BATTERY MODULE	SONG JANGHYUN	SAMSUNG SDI CO LTD	JP2014203824A JP6305117B2	2013-04-08	H01M2/02 H01M2/04 H01M2/06 H01M2/08 H01M2/10 H01M2/20 H01M2/26 H01M2/30	H01M10/0431 (EP,CN,US) H01M2/0404 (CN) H01M2/0473 (EP,US) H01M2/0482 (KR) H01M2/06 (CN) H01M2/08 (CN) H01M2/1061 (KR) H01M2/202 (KR) H01M2/204 (KR) H01M2/206 (KR) H01M2/22 (EP,US) H01M2/263 (KR) H01M2/30 (EP,CN,US) H01M2/307 (KR) H01M2/08 (EP,US)	2014-10-27 2018-04-04	2014-10-09	049680934

287. FABRICATING APPARATUS AND FABRICATING METHOD FOR SECONDARY BATTERY

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
FABRICATING APPARATUS AND FABRICATING METHOD FOR SECONDARY BATTERY	CHO GIBONG CHOI KYUNGTAEK HONG JINUK HWANG SOONHAK KIM DONGWOO KIM KYUHO LEE SEUNG-HWAN MAENG SANGJIN MIN JUNGKI	SAMSUNG SDI CO LTD	JP2016035894A JP6534518B2	2014-08-04	B65H23/195 H01M10/04	B65H23/1806 (EP,US) H01M10/0409 (EP,CN,US) B65H2511/112 (EP,US) B65H2513/11 (EP,US) B65H2515/31 (EP,US) B65H2553/212 (EP,US) B65H2557/242 (EP,US) B65H2801/72 (EP,US) H01M2220/30 (EP,US) B65H2511/112, B65H2220/03, ADD (EP,US) B65H2513/11, B65H2220/01, B65H2220/02, ADD (EP,US) B65H2515/31, B65H2220/01, ADD (EP,US) B65H2515/31, B65H2220/02, ADD (EP,US)	2016-03-17 2019-06-26	2016-02-04	055180954

288. SECONDARY BATTERY

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
SECONDARY BATTERY	LEE HUI-JUN LEE JUNYONG YOO SEUNGYEOL	SAMSUNG SDI CO LTD	JP2015082499A JP6470516B2	2013-10-23	H01M10/04 H01M2/26	H01M10/04 (EP,CN,US) H01M10/0413 (KR) H01M10/0436	2015-04-27 2019-02-13	2015-04-23	051453678

						(KR) H01M10/0463 (KR) H01M2/16 (EP,CN,US) H01M2/1653 (EP,CN,KR,US) H01M2/26 (EP,US) H01M4/66 (KR,US) H01M10/0413 (EP,CN,US) H01M10/0436 (EP,CN,US) H01M10/0463 (EP,CN,US) H01M2200/00 (EP,CN,KR,US)			
--	--	--	--	--	--	--	--	--	--

289. POSITIVE ELECTRODE ACTIVE MATERIAL, AND LITHIUM ION SECONDARY BATTERY

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
POSITIVE ELECTRODE ACTIVE MATERIAL, AND LITHIUM ION SECONDARY BATTERY	NAKANO MASATSUGU NOMURA KEISUKE TAKEI YUKI	SAMSUNG SDI CO LTD	JP2015103331A JP6435093B2	2013-11-22	H01M4/505 H01M4/525	C01G53/42 (KR) H01M10/052 (KR) H01M4/485 (KR) H01M4/525 (KR) C01P2006/40 (KR) H01M4/131 (KR) Y02E60/10 (KR)	2015-06-04 2018-12-05	2015-06-01	053378890

290. POLARIZING PLATE AND IMAGE DISPLAY DEVICE INCLUDING THE SAME

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
POLARIZING PLATE AND IMAGE DISPLAY DEVICE INCLUDING THE SAME	OGAWA HIROSHI SUWA TATSUHIRO	SAMSUNG SDI CO LTD	JP2016085369A JP6653990B2	2014-10-27	G02B5/30 G02F1/1335		2016-05-19 2020-02-26	2016-05-09	055972949

291. RECHARGEABLE BATTERY

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
RECHARGEABLE BATTERY	LEE HUI-JUN LEE KWAN-HYUNG MOON JOONSEOK	SAMSUNG SDI CO LTD	JP2015065149A JP6505980B2	2013-09-24	H01M2/26 H01M2/30 H01M2/34	H01M10/0413 (KR) H01M2/043 (KR) H01M2/06 (KR) H01M2/30 (EP,CN,US) H01M2/305 (KR,US)	2015-04-09 2019-04-24	2015-03-25	050440602

292. RECHARGEABLE BATTERY HAVING INSULATION CASE

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
RECHARGEABLE BATTERY HAVING INSULATION CASE	SEO KWANG-SIK SEONG JAE-IL YOSHIO HIDEAKI YUN JIWON	SAMSUNG SDI CO LTD	JP2015118912A JP6505998B2	2013-12-16	H01M2/06 H01M2/26 H01M2/34 H01M2/04	H01M2/06 (US) H01M2/22 (EP,CN,US) H01M2/30 (US) H01M2/347 (EP,CN,US) H01M2/0217 (EP,CN,US) H01M2/0473 (EP,CN,US) H01M2200/00 (EP,CN,US)	2015-06-25 2019-04-24	2015-06-17	051753084

293. ORGANIC OPTOELECTRONIC ELEMENT AND DISPLAY DEVICE

Title	Inventors	Applicants	Publication	Earliest	IPC	CPC	Publication	Earliest	Family
-------	-----------	------------	-------------	----------	-----	-----	-------------	----------	--------

ORGANIC OPTOELECTRONIC ELEMENT AND DISPLAY DEVICE	JO YOUNG- KYOUNG JUNG HO-KUK JUNG SUNG HYUN KIM CHANGWOO LEE HAN-ILL LUI JIN- HYUN MIN SOO- HYUN PARK JAE HAN YU EUN-SUN	SAMSUNG SDI CO LTD	number JP2016092412A JP6629565B2	priority 2014-10-31	H01L51/50 G09F9/30 H01L27/32	C09K11/06 (KR) H01L27/32 (KR) H01L51/0032 (CN) H01L51/0054 (EP,KR,US) H01L51/0059 (EP,US) H01L51/0061 (US) H01L51/0067 (EP,KR,US) H01L51/0072 (EP,KR,US) H01L51/50 (KR) H01L51/5056 (CN) H01L51/5072 (CN) C09K2211/1044 (KR) C09K2211/1059 (KR) C09K2211/1074 (KR) H01L51/0558 (US) H01L51/44 (US) H01L51/5012 (US) H01L51/5064 (EP,US) H01L51/508 (EP,US) H01L51/5096 (EP,US) Y02E10/549 (EP,US) Y10S428/917 (KR)	date 2016-05-23 2020-01-15	publication 2016-05-01	number 054288658
--	--	-----------------------	---	-------------------------------	------------------------------------	---	---	----------------------------------	----------------------------

294. NEGATIVE ELECTRODE FOR RECHARGEABLE LITHIUM BATTERY AND RECHARGEABLE LITHIUM BATTERY INCLUDING THE SAME

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
NEGATIVE ELECTRODE FOR RECHARGEABLE LITHIUM BATTERY AND RECHARGEABLE LITHIUM BATTERY INCLUDING THE SAME	CHOI YEON-JOO ISHI KAORU LEE EON-MI NAM JUNG-HYUN PARK JONG- HWAN	SAMSUNG SDI CO LTD	JP2015037077A JP6388432B2	2013-08-14	H01M10/052 H01M10/0566 H01M10/058 H01M2/16 H01M4/13	H01M10/052 (CN) H01M10/0525 (EP,US) H01M10/42 (CN) H01M10/4235 (EP,US) H01M4/13 (CN) H01M4/366 (EP,US) H01M4/628 (EP,US) H01M2004/021 (EP,US)	2015-02-23 2018-09-12	2015-02-18	050389362

295. RECHARGEABLE BATTERY

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
RECHARGEABLE BATTERY	KIM YONG-SAM SONG JANGHYUN YOU TAISUN	SAMSUNG SDI CO LTD	JP2015026610A JP6453567B2	2013-07-26	H01M2/06 H01M2/02 H01M2/04 H01M2/08	H01M2/0237 (EP,CN,US) H01M2/043 (EP,CN,US) H01M2/0439 (EP,CN,US) H01M2220/20 (EP,CN,US)	2015-02-05 2019-01-16	2015-01-28	050150654

296. SECONDARY BATTERY

Title	Inventors	Applicants	Publication	Earliest	IPC	CPC	Publication	Earliest	Family
-------	-----------	------------	-------------	----------	-----	-----	-------------	----------	--------

SECONDARY BATTERY	SUNG JAE-IL	SAMSUNG SDI CO LTD	number JP2015103517A JP6429361B2	priority 2013-11-20	H01M2/02	H01M10/04 (KR) H01M2/02 (KR) H01M2/04 (KR) H01M8/1062 (EP,US) H01M8/1067 (EP,US) Y02E60/50 (US)	date 2015-06-04 2018-11-28	publication 2015-05-21	number 053173618
-------------------	-------------	-----------------------	---	-------------------------------	----------	--	---	----------------------------------	----------------------------

297. ELECTROLYTE FOR RECHARGEABLE LITHIUM BATTERY AND RECHARGEABLE LITHIUM BATTERY INCLUDING THE SAME

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
ELECTROLYTE FOR RECHARGEABLE LITHIUM BATTERY AND RECHARGEABLE LITHIUM BATTERY INCLUDING THE SAME	CHO E-RANG HAN SANG-IL KIM BONGCHULL KIM BYUNG-HWA KIM DUCK-HYUN KIM MOON-SUNG LEE JEONG-HYE LEE MIN YOUNG PARK YOUNG SAM PARK YOUNG-HWAN SHIN WOO CHEOL YANG HO-SEOK	SAMSUNG SDI CO LTD	JP2015201426A JP6585898B2	2014-04-09	H01M10/052 H01M10/0567 H01M10/0569	H01M10/052 (EP,US) H01M10/0567 (EP,US) H01M10/0568 (US) H01M10/0569 (EP,US) H01M2220/30 (EP,US) H01M2300/0028 (EP,US) H01M2300/0034 (EP,US) H01M2300/0037 (EP,US) Y02E60/10 (US)	2015-11-12 2019-10-02	2015-10-14	052706115

298. ADDITIVE AGENT FOR LITHIUM BATTERY ELECTROLYTE, ORGANIC ELECTROLYTIC SOLUTION CONTAINING THE SAME, AND LITHIUM BATTERY ARRANGED BY USE THEREOF

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
ADDITIVE AGENT FOR LITHIUM BATTERY ELECTROLYTE, ORGANIC ELECTROLYTIC SOLUTION CONTAINING THE SAME, AND LITHIUM BATTERY ARRANGED BY USE THEREOF	CHO IN HAENG KHASANOV MAKHMUT KIM SANG-HOON LEE HA-RIM PAVEL ALEXANDROVICH SHATUNOV SHIN WOO CHEOL	SAMSUNG SDI CO LTD	JP2015065155A JP6376875B2	2013-09-24	H01M10/0525 H01M10/0567 H01M10/0568 H01M10/0569	H01M10/05 (KR) H01M10/0525 (EP,CN,KR,US) H01M10/0567 (EP,CN,KR,US) H01M10/0569 (KR) H01M4/587 (EP,CN,KR,US) H01M10/0569 (EP,CN,US) H01M2300/0025 (EP,CN,KR,US) Y02T10/70 (EP,KR,US)	2015-04-09 2018-08-22	2015-03-25	051292793

299. WOUND ELECTRODE ELEMENT FOR NONAQUEOUS ELECTROLYTE SECONDARY BATTERY, NONAQUEOUS ELECTROLYTE SECONDARY BATTERY USING THE SAME, AND METHOD FOR MANUFACTURING WOUND ELECTRODE ELEMENT FOR NONAQUEOUS ELECTROLYTE SECONDARY BATTERY

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
WOUND ELECTRODE ELEMENT FOR NONAQUEOUS ELECTROLYTE SECONDARY BATTERY, NONAQUEOUS ELECTROLYTE SECONDARY BATTERY USING THE SAME, AND METHOD FOR MANUFACTURING WOUND ELECTRODE	HOSHIBA HIROHARU	SAMSUNG SDI CO LTD	JP2016119220A JP6494273B2	2014-12-22	H01M10/0587 H01M2/16 H01M4/13 H01M4/62		2016-06-30 2019-04-03	2016-06-30	056244415

ELEMENT FOR NONAQUEOUS ELECTROLYTE SECONDARY BATTERY									
300. COATED PARTICLE FOR LITHIUM ION SECONDARY BATTERY, POSITIVE ELECTRODE ACTIVE MATERIAL LAYER FOR LITHIUM ION SECONDARY BATTERY, AND LITHIUM ION SECONDARY BATTERY									
Title COATED PARTICLE FOR LITHIUM ION SECONDARY BATTERY, POSITIVE ELECTRODE ACTIVE MATERIAL LAYER FOR LITHIUM ION SECONDARY BATTERY, AND LITHIUM ION SECONDARY BATTERY	Inventors HEIDY VISBAL NAKANO MASATSUGU TAKEI YUKI	Applicants SAMSUNG SDI CO LTD	Publication number JP2016072177A	Earliest priority 2014-10-01	IPC H01M4/36 H01M4/505 H01M4/525	CPC	Publication date 2016-05-09	Earliest publication 2016-04-11	Family number 055800645
301. LITHIUM ION SECONDARY BATTERY, POSITIVE ELECTRODE ACTIVE MATERIAL LAYER FOR LITHIUM ION SECONDARY BATTERY, AND SEPARATOR LAYER FOR LITHIUM ION SECONDARY BATTERY									
Title LITHIUM ION SECONDARY BATTERY, POSITIVE ELECTRODE ACTIVE MATERIAL LAYER FOR LITHIUM ION SECONDARY BATTERY, AND SEPARATOR LAYER FOR LITHIUM ION SECONDARY BATTERY	Inventors TAKASE HIROSHIGE YOKOTSUJI HOKUTO	Applicants SAMSUNG SDI CO LTD	Publication number JP2014103083A JP6406795B2	Earliest priority 2012-11-22	IPC H01M10/052 H01M10/0567 H01M10/0585 H01M2/16 H01M4/13 H01M4/62	CPC	Publication date 2014-06-05 2018-10-17	Earliest publication 2014-05-30	Family number 050892795
302. CATHODE ACTIVE MATERIAL LAYER AND LITHIUM ION SECONDARY BATTERY									
Title CATHODE ACTIVE MATERIAL LAYER AND LITHIUM ION SECONDARY BATTERY	Inventors FUKATANI TOMOYUKI HOSHIBA HIROHARU TAKEI YUKI	Applicants SAMSUNG SDI CO LTD	Publication number JP2018200838A	Earliest priority 2017-05-29	IPC H01M10/052 H01M4/131 H01M4/505 H01M4/525 H01M4/62	CPC	Publication date 2018-12-20	Earliest publication 2018-12-07	Family number 064668320
303. LITHIUM ION SECONDARY BATTERY, AND METHOD FOR MANUFACTURING POSITIVE ELECTRODE ACTIVE MATERIAL FOR LITHIUM ION SECONDARY BATTERY									
Title LITHIUM ION SECONDARY BATTERY, AND METHOD FOR MANUFACTURING POSITIVE ELECTRODE ACTIVE MATERIAL FOR LITHIUM ION SECONDARY BATTERY	Inventors NAKANO MASATSUGU	Applicants SAMSUNG SDI CO LTD	Publication number JP2013114815A JP6146947B2	Earliest priority 2011-11-25	IPC H01M4/36 C01G53/00 H01M4/131 H01M4/505 H01M4/525	CPC H01M10/052 (KR) H01M4/131 (KR) H01M4/1391 (KR) H01M4/505 (KR) H01M4/525 (KR)	Publication date 2013-06-10 2017-06-14	Earliest publication 2013-06-04	Family number 048710189
304. FLEXIBLE SECONDARY BATTERY									
Title FLEXIBLE SECONDARY BATTERY	Inventors SOHN JU-HEE SONG HYUN- HWA SUH JUN- WON YI JEONG- DOO	Applicants SAMSUNG SDI CO LTD	Publication number JP2016021387A	Earliest priority 2014-07-14	IPC H01M10/04 H01M10/0585 H01M2/02 H01M2/06 H01M2/08 H01M2/26 H01M2/30 H01M4/04 H01M4/13	CPC H01M10/0436 (EP) H01M10/0486 (EP) H01M2/02 (CN) H01M2/021 (EP) H01M2/0212 (EP) H01M2/0217 (EP) H01M2/026 (EP) H01M2/0287 (EP) H01M2/06 (EP,US)	Publication date 2016-02-04	Earliest publication 2016-01-14	Family number 053510774

						H01M2/26 (EP) H01M10/052 (EP) H01M10/0585 (EP) H01M2/0275 (EP) H01M2/0482 (EP,US) H01M2220/30 (CN)			
305. BATTERY MANAGEMENT DEVICE AND ENERGY STORAGE SYSTEM									
Title BATTERY MANAGEMENT DEVICE AND ENERGY STORAGE SYSTEM	Inventors HWANG EUI- JEONG	Applicants SAMSUNG SDI CO LTD	Publication number JP2014108052A JP6329755B2	Earliest priority 2012-11-29	IPC H01M10/42 H01M10/48 H02J7/02	CPC H01M10/465 (KR) H02H7/1213 (KR) H02J3/32 (EP,KR,US) H02J7/0016 (EP,KR,US) H02J7/027 (KR)	Publication date 2014-06-09 2018-05-23	Earliest publication 2014-05-29	Family number 050772692
306. POSITIVE ELECTRODE ACTIVE MATERIAL FOR LITHIUM SECONDARY BATTERY, AND MANUFACTURING METHOD THEREFOR									
Title POSITIVE ELECTRODE ACTIVE MATERIAL FOR LITHIUM SECONDARY BATTERY, AND MANUFACTURING METHOD THEREFOR	Inventors CHO GENICH KWEON HO-JIN SUH JOON-WON	Applicants SAMSUNG SDI CO LTD	Publication number JP2009152214A JP5753650B2	Earliest priority 2000-09-25	IPC H01M4/36 H01M4/505 H01M4/525	CPC	Publication date 2009-07-09 2015-07-22	Earliest publication 2002-03-30	Family number 019690320
307. CAP ASSEMBLY, SECONDARY BATTERY, AND MANUFACTURING METHOD OF SECONDARY BATTERY									
Title CAP ASSEMBLY, SECONDARY BATTERY, AND MANUFACTURING METHOD OF SECONDARY BATTERY	Inventors JOO JAI-HWAN KIM JINWOOK SEONG JAE-IL WOO SOON KI YOSHIO HIDEAKI	Applicants SAMSUNG SDI CO LTD	Publication number JP2013048105A JP5650704B2	Earliest priority 2008-07-03	IPC H01M2/04 H01M2/36	CPC H01M2/0478 (EP,US) H01M2/08 (EP,US) H01M2/361 (EP,US) H01M2/365 (EP,US) Y10T29/4911 (EP,US)	Publication date 2013-03-07 2015-01-07	Earliest publication 2010-01-06	Family number 040874940
308. NICKEL-BASED ACTIVE MATERIAL FOR LITHIUM SECONDARY BATTERY, METHOD OF PREPARING THE SAME, AND LITHIUM SECONDARY BATTERY INCLUDING POSITIVE ELECTRODE INCLUDING THE SAME									
Title NICKEL-BASED ACTIVE MATERIAL FOR LITHIUM SECONDARY BATTERY, METHOD OF PREPARING THE SAME, AND LITHIUM SECONDARY BATTERY INCLUDING POSITIVE ELECTRODE INCLUDING THE SAME	Inventors CHANG DONGGYU CHO KWANGHWAN HYUN JANGSUK KIM JINHWA KIM JIYOUN KIM JONG-MIN YOON PIL-SANG	Applicants SAMSUNG SDI CO LTD	Publication number JP2018014325A	Earliest priority 2016-07-20	IPC H01M4/505 H01M4/525	CPC C01G53/50 (EP) H01M10/052 (US) H01M4/485 (US) H01M4/525 (US) C01P2002/72 (EP) C01P2002/85 (EP) C01P2004/03 (EP) C01P2004/50 (EP) C01P2004/90 (EP) C01P2006/12 (EP) C01P2006/16 (EP) C01P2006/40 (EP) H01M2004/021 (US) H01M2004/028 (US)	Publication date 2018-01-25	Earliest publication 2018-01-24	Family number 059383499
309. ELECTRODE ASSEMBLY, BATTERY CELL INCLUDING ELECTRODE ASSEMBLY, AND METHOD OF MANUFACTURING BATTERY CELL									

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
ELECTRODE ASSEMBLY, BATTERY CELL INCLUDING ELECTRODE ASSEMBLY, AND METHOD OF MANUFACTURING BATTERY CELL	KIM CHEON SOO KIM HO-SEONG	SAMSUNG SDI CO LTD	JP2014165170A JP6709561B2	2013-02-21	H01M10/04 H01M10/052 H01M10/0568 H01M10/0569 H01M10/0587 H01M2/02 H01M2/16 H01M2/26 H01M2/36	H01M10/0431 (EP,CN,US) H01M10/0436 (EP,CN,US) H01M10/0525 (EP,CN,US) H01M10/0587 (EP,CN,US) H01M2/1653 (EP,CN,US) H01M2/1686 (EP,CN,US) H01M6/40 (EP,CN,US) H01M2/1673 (EP,CN,US) Y02T10/70 (EP,US) Y10T29/4911 (EP,US)	2014-09-08 2020-06-17	2014-08-21	048998428

310. POSITIVE ACTIVE MATERIAL FOR RECHARGEABLE LITHIUM BATTERY, AND POSITIVE ELECTRODE FOR RECHARGEABLE LITHIUM BATTERY AND RECHARGEABLE LITHIUM BATTERY INCLUDING THE SAME

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
POSITIVE ACTIVE MATERIAL FOR RECHARGEABLE LITHIUM BATTERY, AND POSITIVE ELECTRODE FOR RECHARGEABLE LITHIUM BATTERY AND RECHARGEABLE LITHIUM BATTERY INCLUDING THE SAME	NAKANO MASATSUGU TAKEI YUKI	SAMSUNG SDI CO LTD	JP2014135273A JP6324051B2	2012-12-12	H01M4/36 H01M4/62 H01M10/052 H01M10/0566 H01M4/505 H01M4/525 H01M4/66	C01G53/62 (EP,CN,US) H01M10/0525 (EP,US) H01M4/131 (EP,US) H01M4/505 (EP,CN,US) H01M4/661 (EP,US) C01P2002/50 (EP,CN,US) C01P2002/60 (EP,CN,US) C01P2004/51 (EP,CN,US) C01P2004/61 (EP,CN,US) C01P2006/40 (EP,CN,US) H01M10/052 (CN) Y02E60/10 (US)	2014-07-24 2018-05-16	2014-06-12	049759124

311. FLEXIBLE SECONDARY BATTERY

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
FLEXIBLE SECONDARY BATTERY	SOHN JUHEE SONG HYUNHWA SUH JUN-WON YI JEONG-DOO	SAMSUNG SDI CO LTD	JP2016149349A JP6721229B2	2015-02-13	H01M10/04 H01M10/0587 H01M2/02	H01M10/0431 (KR) H01M10/0436 (CN) H01M10/0525 (US) H01M10/0587 (KR) H01M2/0202 (US) H01M2/021 (EP,US) H01M2/0212 (EP,CN,US) H01M2/026 (CN)	2016-08-18 2020-07-08	2016-08-17	055274988

						H01M2/0267 (CN) H01M2/0275 (EP,KR,US) H01M2/0287 (EP,US) H01M2/029 (CN) H01M10/0431 (EP,US) H01M10/0436 (EP,US) H01M2002/0297 (EP,US) H01M2220/30 (EP,US) Y02E60/10 (KR)			
312. SECONDARY BATTERY SEPARATOR AND SECONDARY BATTERY									
Title SECONDARY BATTERY SEPARATOR AND SECONDARY BATTERY	Inventors FUKATANI TOMOYUKI FUKUCHI IWAO	Applicants SAMSUNG SDI CO LTD	Publication number JP2016105398A	Earliest priority 2014-11-21	IPC H01M2/16	CPC	Publication date 2016-06-09	Earliest publication 2016-05-31	Family number 056099173
313. POSITIVE ELECTRODE FOR SECONDARY BATTERY, AND SECONDARY BATTERY									
Title POSITIVE ELECTRODE FOR SECONDARY BATTERY, AND SECONDARY BATTERY	Inventors FUKAHORI HIRONORI	Applicants SAMSUNG SDI CO LTD	Publication number JP2013127872A JP5924925B2	Earliest priority 2011-12-16	IPC H01M4/131 H01M4/36 H01M4/48 H01M4/62	CPC	Publication date 2013-06-27 2016-05-25	Earliest publication 2013-06-27	Family number 048778300
314. ANTENNA MODULE FOR TERMINAL DEVICE AND METHOD FOR MANUFACTURING THE SAME									
Title ANTENNA MODULE FOR TERMINAL DEVICE AND METHOD FOR MANUFACTURING THE SAME	Inventors HWANG YU SIK	Applicants SAMSUNG SDI CO LTD	Publication number JP2015042007A	Earliest priority 2013-08-23	IPC H01Q1/38 H01Q1/52 H01Q7/00	CPC G06K7/10336 (EP,US) H01Q1/2225 (EP,US) H01Q7/00 (EP,US) Y10T29/49016 (EP,US)	Publication date 2015-03-02	Earliest publication 2015-02-26	Family number 050389292
315. SECONDARY BATTERY									
Title SECONDARY BATTERY	Inventors KANG SHIN GUN	Applicants SAMSUNG SDI CO LTD	Publication number JP2015162459A	Earliest priority 2014-02-27	IPC H01M2/04 H01M2/06 H01M2/22 H01M2/30	CPC H01M10/0431 (EP,CN) H01M2/0426 (EP,CN) H01M2/0473 (EP,CN) H01M2/06 (EP,US) H01M2/263 (CN) H01M2/30 (EP,CN,US) H01M2/0486 (EP,CN) H01M2/263 (EP)	Publication date 2015-09-07	Earliest publication 2015-08-27	Family number 052023400
316. LITHIUM ION SECONDARY BATTERY									
Title LITHIUM ION SECONDARY BATTERY	Inventors TAKASE HIROSHIGE YOKOTSUJI HOKUTO	Applicants SAMSUNG SDI CO LTD	Publication number JP2015109235A	Earliest priority 2013-12-05	IPC H01M10/052 H01M10/0567 H01M10/0568 H01M10/0569 H01M4/13	CPC	Publication date 2015-06-11	Earliest publication 2015-06-11	Family number 053439446

					H01M4/133 H01M4/134 H01M4/36				
317. HIGH POLYMER FOR MATRIX, NONAQUEOUS ELECTROLYTE GEL, AND ELECTROCHEMICAL DEVICE									
Title HIGH POLYMER FOR MATRIX, NONAQUEOUS ELECTROLYTE GEL, AND ELECTROCHEMICAL DEVICE	Inventors FUKATANI TOMOYUKI HOSHIBA HIROHARU	Applicants SAMSUNG SDI CO LTD	Publication number JP2019197611A	Earliest priority 2018-05-07	IPC H01M10/052 H01M10/0565	CPC	Publication date 2019-11-14	Earliest publication 2019-11-14	Family number 068537603
318. SECONDARY BATTERY AND ITS MANUFACTURING METHOD									
Title SECONDARY BATTERY AND ITS MANUFACTURING METHOD	Inventors MOON DAE- YEOUN	Applicants SAMSUNG SDI CO LTD	Publication number JP2011040389A JP5618691B2	Earliest priority 2009-08-14	IPC H01M2/34 H01M2/10 H01M2/20	CPC B23K11/11 (EP,KR) H01M10/04 (EP,KR) H01M10/4257 (EP,KR) H01M2/202 (EP,KR) H01M2/266 (EP,KR) H01M2/34 (EP,KR) H01M2200/00 (KR) Y10T29/49108 (EP,US) Y10T29/49115 (EP,US)	Publication date 2011-02-24 2014-11-05	Earliest publication 2011-02-16	Family number 042983589
319. SECONDARY BATTERY									
Title SECONDARY BATTERY	Inventors BYUN SANG- WON CHOE SU- SEOK GO SEIGEN HWANG YONGSHIK KIM HYOUNG-SHICK	Applicants SAMSUNG SDI CO LTD	Publication number JP2014138001A JP6679204B2	Earliest priority 2013-01-18	IPC H01M2/20 H01M2/34	CPC H01M2/0426 (EP,KR,US) H01M2/0456 (CN) H01M2/0482 (KR) H01M2/06 (EP,KR,US) H01M2/26 (KR) H01M2/30 (EP,KR,US) H01M2/34 (CN)	Publication date 2014-07-28 2020-04-15	Earliest publication 2014-07-23	Family number 048782241
320. POSITIVE ELECTRODE FOR LITHIUM ION SECONDARY BATTERY, METHOD FOR MANUFACTURING THE SAME, AND LITHIUM ION S ECONDARY BATTERY									
Title POSITIVE ELECTRODE FOR LITHIUM ION SECONDARY BATTERY, METHOD FOR MANUFACTURING THE SAME, AND LITHIUM ION SECONDARY BATTERY	Inventors KAWASE KENICHI TAKEI YUKI TSUCHIYA HAJIME	Applicants SAMSUNG SDI CO LTD	Publication number JP2017112103A	Earliest priority 2015-12-11	IPC H01M10/0566 H01M10/0567 H01M4/131 H01M4/1391 H01M4/505 H01M4/525 H01M4/62	CPC H01M10/0525 (CN) H01M4/0404 (CN) H01M4/131 (CN) H01M4/1391 (CN) H01M4/485 (CN) H01M4/505 (CN) H01M4/525 (CN) H01M4/62 (CN) H01M2220/20 (CN) Y02E60/10 (EP)	Publication date 2017-06-22	Earliest publication 2017-06-21	Family number 059079628
321. SECONDARY BATTERY									

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
SECONDARY BATTERY	ROH SAE-WEON SONG SUNG-HO	SAMSUNG SDI CO LTD	JP2014150045A JP6319830B2	2013-01-30	H01M2/02 H01M2/12	H01M10/0431 (EP,CN,US) H01M2/0217 (EP,CN,US) H01M2/0473 (EP,CN,US) H01M2/1241 (EP,CN,US)	2014-08-21 2018-05-09	2014-07-31	050000919

322. NEGATIVE ACTIVE MATERIAL, NEGATIVE ELECTRODE EMPLOYING THE SAME, AND LITHIUM BATTERY EMPLOYING NEGATIVE ELECTRODE

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
NEGATIVE ACTIVE MATERIAL, NEGATIVE ELECTRODE EMPLOYING THE SAME, AND LITHIUM BATTERY EMPLOYING NEGATIVE ELECTRODE	CHO YU-JEONG KIN JAE MYUNG LEE SO-RA LEE SU-KYUNG MIYAKO YOSHIMATSU PARK SANG-EUN SIN CHANG SOO	SAMSUNG SDI CO LTD	JP2014157817A JP6391244B2	2013-02-15	C01B31/04 H01M10/052 H01M4/36 H01M4/38 H01M4/48 H01M4/587 C01B32/205	H01M10/04 (KR) H01M10/0422 (KR) H01M10/052 (KR) H01M10/0525 (KR) H01M4/133 (KR) H01M4/1393 (KR) H01M4/366 (EP,CN,KR,US) H01M4/386 (EP,CN,KR,US) H01M4/48 (KR) H01M4/485 (KR) H01M4/583 (KR) H01M4/625 (EP,CN,KR,US) H01M4/626 (EP,CN,KR,US) B82Y99/00 (US) H01M10/0525 (EP,CN,US) Y02E60/10 (US) Y02T10/70 (US) Y10S977/735 (EP,US) Y10S977/742 (EP,US) Y10S977/948 (EP,US)	2014-08-28 2018-09-19	2014-08-20	050070469

323. WOUND ELECTRODE ELEMENT FOR NONAQUEOUS ELECTROLYTE SECONDARY BATTERIES, NONAQUEOUS ELECTROLYTE SECONDARY BATTERY USING THE SAME, AND METHOD FOR MANUFACTURING WOUND ELECTRODE ELEMENT FOR NONAQUEOUS ELECTROLYTE SECONDARY BATTERIES

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
WOUND ELECTRODE ELEMENT FOR NONAQUEOUS ELECTROLYTE SECONDARY BATTERIES, NONAQUEOUS ELECTROLYTE SECONDARY BATTERY USING THE SAME, AND METHOD FOR MANUFACTURING WOUND ELECTRODE ELEMENT FOR NONAQUEOUS ELECTROLYTE SECONDARY BATTERIES	HOSHIBA HIROHARU TAKANO YASUO	SAMSUNG SDI CO LTD	JP2015115266A JP6282458B2	2013-12-13	H01M10/0587 H01M2/16 H01M4/13 H01M4/62	H01M10/052 (KR) H01M10/0587 (KR) H01M2/168 (KR) H01M4/13 (KR) H01M4/623 (KR) Y02E60/10 (KR)	2015-06-22 2018-02-21	2015-06-22	053516620

324. RECHARGEABLE BATTERY									
Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
RECHARGEABLE BATTERY	BYUN SANG-WON LEE WON-JUN MOON YOUNG-SIK	SAMSUNG SDI CO LTD	JP2015072904A JP6654795B2	2013-10-01	H01M2/30 H01M2/34	H01M2/348 (EP,CN,US) H01H2085/025 (EP,CN,US) H01M2200/103 (EP,CN,US)	2015-04-16 2020-02-26	2015-04-02	051628055
325. PROTECTION APPARATUS FOR BATTERY PACK, METHOD OF MANUFACTURING THE PROTECTION APPARATUS, AND BATTERY PACK EQUIPPED THE PROTECTION APPARATUS									
Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
PROTECTION APPARATUS FOR BATTERY PACK, METHOD OF MANUFACTURING THE PROTECTION APPARATUS, AND BATTERY PACK EQUIPPED THE PROTECTION APPARATUS	KIM JAE-SEUNG KO SHAKU	SAMSUNG SDI CO LTD	JP2015011999A JP6478374B2	2013-07-01	H01M10/42 H01M2/10 H01M2/30	H01M10/4257 (EP,CN,US) H01M2/342 (EP,CN,US) H01M2/348 (EP,CN,US) H01L2224/49171 (EP) H01L2924/19105 (EP) H01L2924/19107 (EP) H01M10/052 (EP,CN,US) H01M2200/106 (EP,CN,US) H01M2200/30 (EP,CN,US) H01M2220/30 (EP,CN,US) Y10T29/49117 (EP,US)	2015-01-19 2019-03-06	2015-01-01	050439144
326. ELECTROLYTIC SOLUTION ADDITIVE AGENT, ELECTROLYTIC SOLUTION FOR LITHIUM SECONDARY BATTERY, AND LITHIUM SECONDARY BATTERY									
Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
ELECTROLYTIC SOLUTION ADDITIVE AGENT, ELECTROLYTIC SOLUTION FOR LITHIUM SECONDARY BATTERY, AND LITHIUM SECONDARY BATTERY	ALEXEY TERESHCHENKO BAE TAE-HYUN CHO E-RANG CHO IN HAENG CHOI DONG-MYUNG CHUNG BYUNG-JOO DENIS CHERNYSHOV HAN SANG-IL JUNG MYUNG-HWAN KHASANOV MAKHMUT KIM DUCK-HYUN KIM MOON-SUNG KIM SANG-HOON LEE EON-MI LEE HARRIM LEE MI-HYUN LEE SEUNG-TAE NAM JUNG-HYUN SHATUNOV PAVEL ALEXANDROVICH	SAMSUNG SDI CO LTD	JP2015011991A JP6470510B2	2013-07-02	H01M10/052 H01M10/0567	C07F5/022 (EP,CN,US) H01M10/052 (EP,US) H01M10/0525 (US) H01M10/0567 (EP,US) H01M10/0525 (CN) H01M10/0567 (CN) H01M10/36 (US) H01M10/39 (US) Y02E60/10 (US)	2015-01-19 2019-02-13	2015-01-07	050433964

	SHIN WOO CHEOL VLADIMIR EGOROV YANAGI SADAKORE								
327. SECONDARY BATTERY									
Title SECONDARY BATTERY	Inventors KWON MIN- HYEONG	Applicants SAMSUNG SDI CO LTD	Publication number JP2014229606A	Earliest priority 2013-05-22	IPC H01M2/04 H01M2/34	CPC H01M10/0413 (EP,CN,KR,US) H01M10/0431 (EP,CN,KR,US) H01M10/42 (US) H01M10/4235 (EP,KR,US) H01M2/043 (EP,CN,KR,US) H01M2/06 (EP,CN,KR,US) H01M2/08 (EP,CN,KR,US) H01M2/305 (EP,CN,KR,US) H01M2/342 (KR) H01M2200/00 (EP,CN,KR,US)	Publication date 2014-12-08	Earliest publication 2014-11-26	Family number 050193402
328. SOLAR CELL									
Title SOLAR CELL	Inventors BAEK DO-HYUN CHOI SUN-DONG CHOI YONG-MO HYEON SOON- PIL IM JONG-SAN JUNG CHAN- YOON KANG YOON-MOOK KIM BUM-RAE LEE JAE-HOON LEE JONG-CHUL LEE SEUNG-HEE SON JEONG-HO	Applicants SAMSUNG SDI CO LTD	Publication number JP2015023283A	Earliest priority 2013-07-18	IPC H01L31/048	CPC H01L31/0203 (US) H01L31/0488 (EP,CN) Y02E10/50 (EP)	Publication date 2015-02-02	Earliest publication 2015-01-21	Family number 049816844
329. CONDUCTIVE SHEET COMPOSITION									
Title CONDUCTIVE SHEET COMPOSITION	Inventors JUNG EUN HYE KIM NAM HYUN LIM JONG-CHEOL SHIN CHAN GYUN	Applicants SAMSUNG SDI CO LTD	Publication number JP2015025128A JP6425443B2	Earliest priority 2013-07-26	IPC H01B5/16 C08K3/04 C08L55/02 C08L69/00 C08L83/04 H01B1/00 H01B1/24	CPC C08K3/04 (KR) C08K3/34 (KR) C08L51/04 (KR) C08L69/00 (CN,KR) C08L83/04 (KR) H01B1/24 (EP,CN,US) C08K2201/003 (CN) C08K2201/004 (CN) C08K2201/011 (CN) C08L2203/16 (CN) C08L2205/03 (CN) C08L69/00, C08L55/02, C08L83/04,	Publication date 2015-02-05 2018-11-21	Earliest publication 2015-01-29	Family number 052389707

						C08K7/24, INV (CN)			
330. SECONDARY BATTERY									
Title SECONDARY BATTERY	Inventors YI JONG-GI	Applicants SAMSUNG SDI CO LTD	Publication number JP2014013756A JP6261110B2	Earliest priority 2012-07-04	IPC H01M10/04 H01M2/14 H01M2/26 H01M2/30	CPC H01M10/0431 (EP,CN,US) H01M10/0463 (EP,CN,US) H01M10/0585 (EP,CN,US) H01M10/0587 (EP,CN,US)	Publication date 2014-01-23 2018-01-17	Earliest publication 2014-01-08	Family number 048698942
331. LEAD TAB, BATTERY PACK HAVING THE SAME, AND METHOD OF MANUFACTURING LEAD TAB									
Title LEAD TAB, BATTERY PACK HAVING THE SAME, AND METHOD OF MANUFACTURING LEAD TAB	Inventors MOON DAE- YEOUN WON HEE-YOUN	Applicants SAMSUNG SDI CO LTD	Publication number JP2014056809A JP6245729B2	Earliest priority 2012-09-11	IPC H01M2/10 H01M2/20 H01M2/34	CPC H01M2/0404 (EP,CN,US) H01M2/202 (EP,US) H01M2/22 (EP,CN,US) H01M2/021 (US) H01M2/0212 (US) H01M2/0215 (US) H01M2/0277 (US) H01M2/0469 (EP,CN,US) H01M2/0482 (US) H01M2/1061 (EP,CN,US) H01M2/30 (US) H01M2200/10 (EP,CN,US)	Publication date 2014-03-27 2017-12-13	Earliest publication 2014-03-12	Family number 048128190
332. NONAQUEOUS ELECTROLYTE SECONDARY BATTERY									
Title NONAQUEOUS ELECTROLYTE SECONDARY BATTERY	Inventors NISHIMOTO ATSUSHI TAKANO YASUO	Applicants SAMSUNG SDI CO LTD	Publication number JP2019207895A	Earliest priority 2019-09-13	IPC H01M10/05 H01M10/0587 H01M2/26	CPC	Publication date 2019-12-05	Earliest publication 2019-12-05	Family number 068767034
333. BATTERY SUBMODULE CARRIER, BATTERY SUBMODULE, BATTERY SYSTEM, AND VEHICLE									
Title BATTERY SUBMODULE CARRIER, BATTERY SUBMODULE, BATTERY SYSTEM, AND VEHICLE	Inventors RALPH WUENSCH STEPHAN KLOMBERG THOMAS BRANDNER THOMAS RENGER	Applicants SAMSUNG SDI CO LTD	Publication number JP2018006314A	Earliest priority 2016-07-07	IPC H01M10/613 H01M10/625 H01M10/643 H01M10/647 H01M10/6556 H01M2/10	CPC B60K6/28 (US) B60L50/64 (EP) H01M10/613 (EP,KR,US) H01M10/625 (EP,KR,US) H01M10/647 (US) H01M10/6556 (EP,KR,US) H01M2/024 (US) H01M2/1005 (KR) H01M2/1016 (KR) H01M2/1077 (EP,KR,US) H01M2/1083 (KR) B60L2240/545 (EP) B60Y2200/91 (US) B60Y2200/92 (US) B60Y2400/112	Publication date 2018-01-11	Earliest publication 2018-01-10	Family number 057396344

						(US) H01M2220/20 (EP,KR,US) Y02E60/12 (KR) Y02T10/7005 (KR) Y10S903/907 (EP,US)			
--	--	--	--	--	--	---	--	--	--

334. SECONDARY BATTERY

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
SECONDARY BATTERY	AHN JEONG CHULL KIM SANG HYUN KIYONO HIROSHI	SAMSUNG SDI CO LTD	JP2020013789A	2018-07-17	H01M10/04 H01M10/052 H01M10/0566 H01M10/0587 H01M2/02	H01M10/0583 (CN) H01M2/0207 (EP) H01M2/0217 (US) H01M2/0237 (EP) H01M2/024 (US) H01M2/0282 (EP) H01M2/0469 (EP) H01M2/0482 (EP) H01M2/08 (EP) H01M2/1016 (CN)	2020-01-23	2020-01-23	069162040

335. ADHESIVE COMPOSITION FOR OPTICAL FILMS, AND ADHESIVE LAYER, OPTICAL MEMBER, AND IMAGE DISPLAY DEVICE PREPARED THEREWITH

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
ADHESIVE COMPOSITION FOR OPTICAL FILMS, AND ADHESIVE LAYER, OPTICAL MEMBER, AND IMAGE DISPLAY DEVICE PREPARED THEREWITH	INUI KUNIHICO OGAWA HIROSHI SUWA TATSUHIRO TAKAHASHI TOSHIYUKI	SAMSUNG SDI CO LTD	JP2018024756A	2016-08-09	B32B27/00 B32B27/30 C09J11/06 C09J133/04 C09J183/02 C09J7/20 G02B5/30	C09J11/06 (KR) C09J133/08 (KR) C09J133/10 (KR) C09J7/00 (KR) C09J7/20 (KR) C09J2301/312 (KR)	2018-02-15	2018-02-15	061195176

336. COMPOSITION FOR SILICA FILM FORMATION, AND SILICA FILM

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
COMPOSITION FOR SILICA FILM FORMATION, AND SILICA FILM	JOO YOUNG JAE KIM JIN-GYO LEE JI-HO SIM SOO YEON	SAMSUNG SDI CO LTD	JP2018037641A	2016-08-31	C08K5/01 C08K5/06 C08K5/07 C08K5/101 C08L83/04 C08L83/16 C09D183/04 C09D183/08 C09D7/40 H01L21/316	B05D1/00 (US) C01B33/12 (US) C08L83/14 (CN) C08L83/16 (CN) C09D183/14 (CN) C09D183/16 (EP,CN,US) C23C18/00 (EP) C23C18/1212 (EP) C23C18/1254 (EP) H01L23/296 (EP,US) H01L23/3171 (EP,US) H01L29/51 (CN) C08G77/62 (EP) C08L2203/206 (CN) C23C18/1245 (EP)	2018-03-08	2018-03-01	061241575

337. BATTERY MODULE CARRIER, BATTERY MODULE AND VEHICLE WITH BATTERY SYSTEM

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
BATTERY MODULE CARRIER, BATTERY MODULE AND VEHICLE WITH BATTERY SYSTEM	RALPH WUENSCH STEPHAN KLOMBERG	SAMSUNG SDI CO LTD	JP2018006313A	2016-07-07	B60K1/04 H01M10/613 H01M10/625	B60L50/64 (EP,US) H01M10/425 (EP,KR,US)	2018-01-11	2018-01-10	057396345

	THOMAS BRANDNER THOMAS RENGER				H01M10/6557 H01M2/10	H01M10/482 (KR) H01M10/613 (EP,KR,US) H01M10/625 (EP,KR,US) H01M10/6556 (EP,KR,US) H01M2/1077 (EP,KR,US) H01M2/1083 (US) H01M2220/20 (KR,US) Y02T10/70 (EP,US)			
--	--	--	--	--	-------------------------	---	--	--	--

338. BATTERY MANAGEMENT SYSTEM AND SWITCHING METHOD THEREOF

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
BATTERY MANAGEMENT SYSTEM AND SWITCHING METHOD THEREOF	LEE EUN-RA YANG HAK-CHEOL	SAMSUNG SDI CO LTD	JP2019180235A	2013-03-07	H02H7/00 H02J1/00 H02J7/00 H02M7/48	B60L3/0046 (EP,CN,US) B60L3/04 (EP,US) B60L50/50 (KR) B60L50/51 (EP,US) B60L58/18 (EP,US) B60L58/21 (EP,CN,US) B60R16/03 (US) B60W10/26 (KR) B63H21/00 (US) H02H9/001 (EP,US) H02J7/00 (KR) H02J7/0014 (EP) H02J7/0026 (US) H02J7/0029 (EP,KR,US) H02J7/00304 (KR) Y02T10/70 (EP,US) Y10T307/76 (EP)	2019-10-17	2014-09-10	048747989

339. BINDER FOR ELECTRODE OF LITHIUM CELL AND LITHIUM CELL EMPLOYING THE SAME

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
BINDER FOR ELECTRODE OF LITHIUM CELL AND LITHIUM CELL EMPLOYING THE SAME	JUNG HYESEON LI FAN XU LI HUI LAN	SAMSUNG SDI CO LTD	JP2013143382A JP6265598B2	2012-01-10	B82Y30/00 B82Y40/00 H01M4/13 H01M4/62	C08K3/04 (KR) C08L101/06 (KR) H01M10/052 (EP,US) H01M10/0525 (KR) H01M4/133 (EP) H01M4/134 (KR) H01M4/1395 (KR) H01M4/621 (US) H01M4/622 (EP) H01M4/623 (KR) H01M2220/20 (KR) H01M2220/30 (KR) H01M4/134 (EP,US) H01M4/1395 (EP,US) H01M4/386 (EP)	2013-07-22 2018-01-24	2013-07-11	045936998

						H01M4/625 (EP) Y02E60/122 (US) Y02P70/54 (KR) Y02T10/7011 (KR)			
340. BATTERY PACK									
Title BATTERY PACK	Inventors MOON DAE- YEOUN WANG HAN-JUN WON HEE-YOUN	Applicants SAMSUNG SDI CO LTD	Publication number JP2015153749A JP5725246B1	Earliest priority 2014-02-11	IPC H01M10/44 H01M10/48 H01M2/10 H01M2/30	CPC H01M10/425 (EP,US) H01M10/486 (EP,US) H01M2/10 (US) H01M2/1016 (EP,US) H01M2/202 (EP,US) H01M10/42 (US) H01M10/4257 (US) H01M2/1061 (EP,US) H01M2010/4271 (US) H01M2200/10 (EP,US) H01M2220/30 (EP,US)	Publication date 2015-08-24 2015-05-27	Earliest publication 2015-05-14	Family number 051626452
341. BATTERY PACK AND METHOD OF MANUFACTURING THE SAME									
Title BATTERY PACK AND METHOD OF MANUFACTURING THE SAME	Inventors BAEK WOON- SEONG KIM DAIKON KIM JONGPIL	Applicants SAMSUNG SDI CO LTD	Publication number JP2011181502A JP5647034B2	Earliest priority 2010-03-03	IPC H01M2/10	CPC C23F3/06 (EP) H01M10/0436 (EP) H01M10/637 (EP) H01M2/0404 (EP) B21H3/02 (EP) H01M10/052 (EP) H01M10/30 (EP) Y10T29/49108 (EP,US)	Publication date 2011-09-15 2014-12-24	Earliest publication 2011-09-08	Family number 044149826
342. POSITIVE ACTIVE MATERIAL, AND POSITIVE ELECTRODE AND LITHIUM BATTERY INCLUDING THE POSITIVE ACTIVE MATERIAL									
Title POSITIVE ACTIVE MATERIAL, AND POSITIVE ELECTRODE AND LITHIUM BATTERY INCLUDING THE POSITIVE ACTIVE MATERIAL	Inventors BOKU DOKEI KIM CHANG-HYUK KIM JI-HYUN KIM MIN-HAN KIN JUNCHO KWON SEON-YOUNG LEE JEONG- SEOP	Applicants SAMSUNG SDI CO LTD	Publication number JP2011216485A JP5868604B2	Earliest priority 2010-03-31	IPC H01M4/36 H01M4/505 H01M4/525	CPC C01G45/1228 (EP,US) C01G51/50 (EP,US) C01G53/006 (US) C01G53/42 (EP,US) C01G53/50 (EP,US) H01M10/0525 (EP,US) H01M4/364 (EP,US) H01M4/525 (EP,US) C01P2002/52 (EP,US) C01P2002/60 (EP,US) C01P2002/88 (EP,US)	Publication date 2011-10-27 2016-02-24	Earliest publication 2011-10-05	Family number 044276031

						C01P2004/03 (EP,US) C01P2004/51 (EP,US) C01P2004/53 (US) C01P2004/61 (EP,US) C01P2006/11 (EP,US) C01P2006/40 (EP,US) H01M2004/021 (EP,US) H01M4/131 (EP,US) Y02E60/10 (US)			
--	--	--	--	--	--	--	--	--	--

343. SEPARATOR FOR LITHIUM SECONDARY BATTERY AND LITHIUM SECONDARY BATTERY INCLUDING THE SAME

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
SEPARATOR FOR LITHIUM SECONDARY BATTERY AND LITHIUM SECONDARY BATTERY INCLUDING THE SAME	AHN CHANGBUM HAN SEONG-HOON	SAMSUNG SDI CO LTD	JP2012164655A JP6478198B2	2011-02-03	H01M2/16	H01M2/145 (EP,US) H01M2/1646 (US) H01M2/1653 (EP,US) H01M2/1686 (EP,US) H01M10/0525 (EP,US) H01M4/525 (EP,US) H01M4/587 (EP,US) Y02E60/10 (US) Y02P70/50 (EP,US) Y02T10/70 (US)	2012-08-30 2019-03-06	2012-08-08	045346197

344. CATHODE ACTIVE MATERIAL, CATHODE AND LITHIUM BATTERY EMPLOYING THE SAME, AND METHOD OF PREPARING THE SAME

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
CATHODE ACTIVE MATERIAL, CATHODE AND LITHIUM BATTERY EMPLOYING THE SAME, AND METHOD OF PREPARING THE SAME	KIM MIN-JU KYO KYOSAI LEE HYUN-DEOK PARK YONG-CHOL SEO JIN-HYOUNG SONG MIRAN YOO NARUM	SAMSUNG SDI CO LTD	JP2012146662A JP6116800B2	2011-01-12	H01M4/505 H01M4/525	C01G45/1242 (EP,US) C01G51/12 (EP,US) C01G53/54 (EP,US) H01M10/0525 (EP,US) H01M4/0471 (EP,US) H01M4/131 (EP,US) H01M4/1391 (EP,US) H01M4/364 (EP,US) H01M4/485 (EP,US) H01M4/505 (EP,US) H01M4/525 (EP,US)	2012-08-02 2017-04-19	2012-07-12	045463397

						C01P2002/72 (EP,US) C01P2004/03 (EP,US) C01P2006/12 (EP,US) C01P2006/40 (EP,US) H01M2004/021 (EP,US) H01M2004/028 (EP,US) Y02E60/10 (US) Y02T10/70 (EP,US)			
--	--	--	--	--	--	--	--	--	--

345. SECONDARY BATTERY

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
SECONDARY BATTERY	BYUN SANG-WON LEE CHI-YOUNG LEE KWAN-HYUNG	SAMSUNG SDI CO LTD	JP2015228362A	2014-06-02	H01M2/30	H01M2/06 (EP) H01M2/30 (EP,US) H01M10/052 (EP)	2015-12-17	2015-12-03	053052685

346. COMPOSITION FOR FORMING SILICA BASED LAYER, METHOD FOR MANUFACTURING SILICA BASED LAYER, AND ELECTRONIC DEVICE INCLUDING SAID SILICA BASED LAYER

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
COMPOSITION FOR FORMING SILICA BASED LAYER, METHOD FOR MANUFACTURING SILICA BASED LAYER, AND ELECTRONIC DEVICE INCLUDING SAID SILICA BASED LAYER	BAE JIN-HEE CHO YOUN-JIN HAN KWEN-WOO HWANG BYEONG-GYU JANG JUN-YOUNG KANG SUN-HAE KIM BO-SUN KIM SANG-GYUN KWAK TAEK-SOO LEE HAN-SONG LIM WAN-HEE PARK EUN-SU PARK SAE-MI SEO JIN-WOO	SAMSUNG SDI CO LTD	JP2016117881A	2014-12-19	C09D1/00 C09D183/08 C09D183/16 C09D7/12 H01B3/12 H01L21/316	C08K5/01 (US) C09D183/08 (KR) C09D183/14 (EP,US) C09D183/16 (EP,US) C09D7/20 (KR) H01B3/46 (KR) C08G77/54 (EP,US) C08G77/62 (EP,US)	2016-06-30	2016-06-23	056128694

347. BATTERY PACK

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
BATTERY PACK	WANG HAN-JUN	SAMSUNG SDI CO LTD	JP2014123558A JP6305732B2	2012-12-21	H01M2/10	H01M2/1022 (US) H01M2/1061 (EP,US) H01M2/1072 (US) H01M2/1077 (EP,US)	2014-07-03 2018-04-04	2014-06-25	048628576

348. GRAFT COPOLYMER, BINDER COMPOSITION FOR SECONDARY BATTERY, SEPARATOR FOR SECONDARY BATTERY, SECONDARY BATTERY AND MANUFACTURING METHOD OF GRAFT COPOLYMER

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
GRAFT COPOLYMER, BINDER COMPOSITION FOR SECONDARY BATTERY, SEPARATOR FOR SECONDARY BATTERY, SECONDARY BATTERY AND MANUFACTURING	FUKATANI TOMOYUKI FUKUCHI IWAO	SAMSUNG SDI CO LTD	JP2017115102A JP6669491B2	2015-12-25	C08F259/08 C09D7/12 C08G81/02 C09D127/16 C09D133/04 H01M2/16 H01M4/62 C09D7/61		2017-06-29 2020-03-18	2017-06-29	059231452

METHOD OF GRAFT COPOLYMER									
349. ELECTROLYTE FOR LITHIUM SECONDARY BATTERY AND LITHIUM SECONDARY BATTERY INCLUDING THE SAME									
Title ELECTROLYTE FOR LITHIUM SECONDARY BATTERY AND LITHIUM SECONDARY BATTERY INCLUDING THE SAME	Inventors BOKU HIROKIMI HAN MAN-SEOK IM JIN-HYOK OH MI-HYEUN YANG HO-SEOK	Applicants SAMSUNG SDI CO LTD	Publication number JP2012169253A JP6068789B2	Earliest priority 2011-02-16	IPC H01M10/0567 H01M10/052	CPC H01M10/0525 (EP) H01M10/0569 (EP) H01M10/4235 (EP) H01M2300/0025 (EP) H01M2300/0037 (EP)	Publication date 2012-09-06 2017-01-25	Earliest publication 2012-08-16	Family number 045463458
350. BATTERY PACK									
Title BATTERY PACK	Inventors KIM BONG- YOUNG SHIN KI- HO	Applicants SAMSUNG SDI CO LTD	Publication number JP2012249516A JP6293404B2	Earliest priority 2011-05-26	IPC H01M10/44 H01M10/46 H01M2/10 H02J7/00	CPC H01M10/0445 (EP,US) H01M10/441 (EP,US) H02J7/0024 (EP,US) H01M10/482 (EP,US) H01M2010/4271 (EP,US)	Publication date 2012-12-13 2018-03-14	Earliest publication 2012-11-28	Family number 046148715
351. SEPARATOR FOR LITHIUM SECONDARY BATTERY, METHOD OF MANUFACTURING THE SAME, AND LITHIUM SECONDARY BATTERY INCLUDING THE SAME									
Title SEPARATOR FOR LITHIUM SECONDARY BATTERY, METHOD OF MANUFACTURING THE SAME, AND LITHIUM SECONDARY BATTERY INCLUDING THE SAME	Inventors CHOI KWI-SEOK KIM IN PARK SAM-JIN YEOU JUNG-OCK	Applicants SAMSUNG SDI CO LTD	Publication number JP2013251259A JP6323934B2	Earliest priority 2012-06-01	IPC H01M10/052 H01M10/0566 H01M10/058 H01M2/16	CPC H01M10/052 (EP,US) H01M2/145 (EP,US) H01M2/1653 (EP,US) H01M2/1686 (EP,US) H01M10/0587 (EP,US) Y02E60/10 (US)	Publication date 2013-12-12 2018-05-16	Earliest publication 2013-12-04	Family number 047018820
352. METHOD OF PRODUCING PRE-POLYMER PARTICLE									
Title METHOD OF PRODUCING PRE-POLYMER PARTICLE	Inventors BAE GOOK GEON IM SANG KYUN JUN SUK MIN KIM JIN KYU KWON SO YOUNG LEE KI YON	Applicants SAMSUNG SDI CO LTD	Publication number JP2015048482A	Earliest priority 2013-09-02	IPC C08J3/12	CPC C07C231/02 (EP,US) C08G69/265 (EP,US) C08G69/28 (EP,US) C08J3/12 (EP) C07C231/02, C07C233/78, INV (EP)	Publication date 2015-03-16	Earliest publication 2015-03-05	Family number 052584115
353. SEPARATOR FOR LITHIUM BATTERY, LITHIUM BATTERY INCLUDING THE SAME, AND METHOD OF MANUFACTURING LITHIUM BATTERY									
Title SEPARATOR FOR LITHIUM BATTERY, LITHIUM BATTERY INCLUDING THE SAME, AND METHOD OF	Inventors JO YUNKYUNG KIM CHAN-JUNG KIM IN KIM YOUNG-SU	Applicants SAMSUNG SDI CO LTD	Publication number JP2015099777A	Earliest priority 2013-11-19	IPC H01M10/052 H01M10/0566 H01M10/0587	CPC H01M10/052 (US) H01M10/058 (US) H01M10/0585 (US)	Publication date 2015-05-28	Earliest publication 2015-05-20	Family number 051951626

MANUFACTURING LITHIUM BATTERY	MOON JUNG JIN PARK NA RAE SON SUK JUNG				H01M2/16 H01M4/13	H01M10/0587 (EP,US) H01M2/162 (US) H01M2/166 (EP,US) H01M2/168 (EP,US) H01M2/1686 (EP,US) H01M10/0525 (EP,US) H01M2/145 (EP,US) Y10T29/49108 (EP,US)			
----------------------------------	--	--	--	--	----------------------	--	--	--	--

354. NICKEL-BASED ACTIVE MATERIAL FOR LITHIUM SECONDARY BATTERY, MANUFACTURING METHOD THEREOF, AND LITHIUM SECONDARY BATTERY INCLUDING POSITIVE ELECTRODE INCLUDING THE SAME

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
NICKEL-BASED ACTIVE MATERIAL FOR LITHIUM SECONDARY BATTERY, MANUFACTURING METHOD THEREOF, AND LITHIUM SECONDARY BATTERY INCLUDING POSITIVE ELECTRODE INCLUDING THE SAME	CHANG DONGGYU KIM JIYON KIM JONG-MIN SHIM JAE-HYUN	SAMSUNG SDI CO LTD	JP2018092931A	2016-11-30	C01G53/00 H01M4/505 H01M4/525	C01G53/42 (EP) C01G53/50 (EP) H01M10/052 (EP,US) H01M10/0525 (EP,CN) H01M4/0471 (US) H01M4/131 (EP) H01M4/1391 (EP) H01M4/362 (CN) H01M4/38 (US) H01M4/485 (EP,CN) H01M4/505 (EP,CN) H01M4/525 (EP,CN) C01P2004/54 (EP) C01P2006/14 (EP) H01M2004/021 (EP,CN) H01M2004/028 (US)	2018-06-14	2018-05-31	060515239

355. CATHODE ACTIVE MATERIAL, MANUFACTURING METHOD OF THE SAME, AND CATHODE CONTAINING THEM AND LITHIUM SECONDARY BATTERY

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
CATHODE ACTIVE MATERIAL, MANUFACTURING METHOD OF THE SAME, AND CATHODE CONTAINING THEM AND LITHIUM SECONDARY BATTERY	CHOI ICK-KYU HONG MING-ZI HONG SOONKIE JANG JIYEON KIM YOUNG-GI YI CHANG-HUN YI SUN-RYUL	SAMSUNG SDI CO LTD	JP2020031058A	2018-08-22	H01M4/131 H01M4/36 H01M4/525	C01G51/00 (CN) C01G51/42 (EP,US) H01M10/0525 (CN,US) H01M4/131 (US) H01M4/364 (CN) H01M4/525 (CN,US) C01P2002/72 (CN,US) C01P2002/88 (CN,US) C01P2004/03 (EP) C01P2004/61 (CN,US) C01P2006/10	2020-02-27	2020-02-27	067734505

						(US) C01P2006/40 (EP,CN,US) H01M2004/021 (US) H01M2004/028 (CN,US)			
356. ORGANIC LAYER COMPOSITION, ORGANIC LAYER, AND METHOD OF FORMING PATTERNS									
Title ORGANIC LAYER COMPOSITION, ORGANIC LAYER, AND METHOD OF FORMING PATTERNS	Inventors BAEK JAEYEOL HONG SEUNG HEE HWANG SUNMIN JEONG SEULGI KIM MIN SU NAM YOUNHEE SONG HYUNJI YOON BYERI	Applicants SAMSUNG SDI CO LTD	Publication number JP2016222893A	Earliest priority 2015-06-02	IPC C08K5/13 C08L61/08 C08L61/12 C08L65/00 G03F7/11 G03F7/26 H01L21/027	CPC C08G8/10 (EP,US) C08G8/20 (EP,US) C08G8/24 (EP,US) C09D161/06 (EP,US) G03F7/0035 (CN) G03F7/0752 (EP,US) G03F7/09 (CN) G03F7/094 (EP,US) H01L21/0332 (EP,US)	Publication date 2016-12-28	Earliest publication 2016-12-08	Family number 057450885
357. BATTERY PACK AND LEAD ELECTRODE FOR THE SAME									
Title BATTERY PACK AND LEAD ELECTRODE FOR THE SAME	Inventors PARK IN-SU PARK SANG-JIN	Applicants SAMSUNG SDI CO LTD	Publication number JP2013084570A JP5610645B2	Earliest priority 2011-10-11	IPC H01M2/10 H01M2/30 H01M2/34 H01M2/20	CPC H01M2/202 (EP) H01M2/204 (EP) H01M2/24 (EP) H01M2/0207 (EP) H01M6/42 (EP)	Publication date 2013-05-09 2014-10-22	Earliest publication 2013-04-11	Family number 046514221
358. BATTERY PACK AND METHOD OF MANUFACTURING THE SAME									
Title BATTERY PACK AND METHOD OF MANUFACTURING THE SAME	Inventors BAEK WOON- SEONG LEE SANGJOO	Applicants SAMSUNG SDI CO LTD	Publication number JP2011040374A JP5656491B2	Earliest priority 2009-08-11	IPC H01M2/10	CPC H01M2/02 (EP) H01M2/0202 (EP) H01M2/0207 (EP) H01M2/0257 (EP) H01M2/0267 (EP) H01M2/0275 (EP) H01M2/0473 (EP) H01M2/0482 (EP) Y10T29/49108 (EP,US) Y10T29/49112 (EP,US)	Publication date 2011-02-24 2015-01-21	Earliest publication 2011-02-16	Family number 042729429
359. POSITIVE ELECTRODE ACTIVE MATERIAL COMPOSITION FOR ELECTROCHEMICAL DEVICE, POSITIVE ELECTRODE FOR ELECTROCHEMICAL DEVICE AND ELECTROCHEMICAL DEVICE CONTAINING THE SAME									
Title POSITIVE ELECTRODE ACTIVE MATERIAL COMPOSITION FOR ELECTROCHEMICAL DEVICE, POSITIVE ELECTRODE FOR ELECTROCHEMICAL DEVICE AND ELECTROCHEMICAL DEVICE CONTAINING THE SAME	Inventors ISHIDA SUMUTO LEE MEE-YOUNG SHEN KUIYUN SO GIKAN	Applicants SAMSUNG SDI CO LTD	Publication number JP2012064566A JP5659102B2	Earliest priority 2010-09-15	IPC H01M10/052 H01M4/13 H01M4/62	CPC C01B32/00 (KR) H01G11/32 (EP) H01G9/042 (KR) H01M10/052 (KR) H01M4/13 (EP) H01M4/62 (KR) H01M4/625 (EP) H01M10/052 (EP) Y02E60/13 (EP)	Publication date 2012-03-29 2015-01-28	Earliest publication 2012-03-15	Family number 044503628
360. NEGATIVE ELECTRODE ACTIVE MATERIAL FOR LITHIUM SECONDARY BATTERY, METHOD FOR MANUFACTURING THE SAME, AND LITHIUM SECONDARY BATTERY INCLUDING THE SAME									

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
NEGATIVE ELECTRODE ACTIVE MATERIAL FOR LITHIUM SECONDARY BATTERY, METHOD FOR MANUFACTURING THE SAME, AND LITHIUM SECONDARY BATTERY INCLUDING THE SAME	KIM YONG-UK PARK SANG-EUN	SAMSUNG SDI CO LTD	JP2013069674A JP6207131B2	2011-09-21	H01M4/48 H01M10/052 H01M10/0566 H01M4/36 H01M4/38	H01M10/052 (EP,US) H01M10/0525 (KR) H01M4/134 (EP,KR,US) H01M4/1395 (EP,KR,US) H01M4/366 (EP,KR,US) H01M4/386 (EP,KR,US) H01M4/505 (KR) H01M4/525 (KR) H01M4/58 (EP,US) H01M4/583 (EP,KR,US) Y02P70/54 (KR)	2013-04-18 2017-10-04	2013-03-21	046603689

361. ORGANIC PHOTOELECTRIC ELEMENT AND DISPLAY DEVICE

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
ORGANIC PHOTOELECTRIC ELEMENT AND DISPLAY DEVICE	JO YOUNG-KYOUNG JUNG HO-KUK KANG EUI-SU KIM YOUN-HWAN KIM YOUNGKWON MIN SOO-HYUN YANG YONG-TAK YU EUN-SUN	SAMSUNG SDI CO LTD	JP2016111346A	2014-12-09	C09K11/06 H01L51/50	C09K11/025 (EP,US) C09K11/06 (EP,KR,US) H01L27/32 (KR) H01L51/0037 (CN) H01L51/0052 (US) H01L51/0054 (US) H01L51/0067 (EP,CN,US) H01L51/0072 (EP,CN,US) H01L51/0074 (US) H01L51/0085 (EP,US) H01L51/50 (KR) H01L51/5012 (CN) H01L51/5016 (EP,US) H01L51/5056 (EP,CN,US) C09K2211/1007 (EP,US) C09K2211/1029 (EP,US) C09K2211/1044 (EP) C09K2211/1088 (EP) H01L2251/5384 (US) Y02E10/549 (EP) Y10S428/917 (KR)	2016-06-20	2016-06-09	054979366

362. LITHIUM ION SECONDARY BATTERY

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
LITHIUM ION SECONDARY BATTERY	TAKASE HIROSHIGE YOKOTSUJI HOKUTO	SAMSUNG SDI CO LTD	JP2016126855A JP6438299B2	2014-12-26	H01M10/052 H01M10/0567 H01M10/0569		2016-07-11 2018-12-12	2016-07-06	056357055

363. RESIST UNDERLAYER COMPOSITION, AND METHOD OF FORMING PATTERNS USING THE COMPOSITION									
Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
RESIST UNDERLAYER COMPOSITION, AND METHOD OF FORMING PATTERNS USING THE COMPOSITION	BAE SHINHYO BAEK JAEYEOL CHOI YOOJEONG KWON SOONHYUNG PARK HYEON	SAMSUNG SDI CO LTD	JP2020042260A	2018-09-06	C08G75/045 G03F7/11	G03F1/56 (CN) G03F1/76 (CN) G03F7/004 (CN) G03F7/0045 (US) G03F7/039 (CN) G03F7/0392 (US) G03F7/066 (US) G03F7/091 (EP) G03F7/094 (EP,US) G03F7/0955 (US)	2020-03-19	2020-03-12	069719470
364. SECONDARY BATTERY AND BATTERY MODULE									
Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
SECONDARY BATTERY AND BATTERY MODULE	BYUN SANG- WON KWAK YUN- JUNG KWON MIN- HYEONG SEO YONG-CHUL	SAMSUNG SDI CO LTD	JP2015082500A JP6491448B2	2013-10-24	H01M2/06 H01M2/10 H01M2/30 H01M2/34 H01M2/04	H01M2/043 (EP,CN,US) H01M2/0486 (EP,CN,US) H01M2/34 (US) H01M2/345 (EP,CN,US) H01M2/348 (EP,CN,US) H01M2200/103 (EP,CN,US) H01M2200/20 (EP,CN,US)	2015-04-27 2019-03-27	2015-04-27	050693532
365. SECONDARY BATTERY									
Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
SECONDARY BATTERY	BYUN SANG- WON HAN MIN- YEOL YOON SU- JIN YUN YONG HEE	SAMSUNG SDI CO LTD	JP2014203822A JP6346449B2	2013-04-08	H01M10/04 H01M2/04 H01M2/36	H01M2/06 (KR) H01M2/12 (EP,CN) H01M2/1241 (KR) H01M2/305 (EP,CN,KR) H01M2/34 (EP,CN,KR) H01M2/36 (EP,CN) H01M2/364 (EP,CN,KR,US) H01M2/1241 (EP,CN) H01M2200/00 (KR)	2014-10-27 2018-06-20	2014-10-09	049713002
366. COATING-SEPARATION FILM, AND ELECTROCHEMICAL DEVICE INCLUDING THE SAME									
Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
COATING-SEPARATION FILM, AND ELECTROCHEMICAL DEVICE INCLUDING THE SAME	CHOI YEON-JOO ISHI KAORU NAM JUNG-HYUN PARK JONG- HWAN	SAMSUNG SDI CO LTD	JP2015079752A JP6522309B2	2013-10-18	H01M10/052 H01M2/16	H01M2/14 (EP,CN,US) H01M2/16 (US) H01M2/1686 (EP,CN,US)	2015-04-23 2019-05-29	2015-04-22	050433998
367. COMPOUND FOR ORGANIC OPTOELECTRONIC DEVICE, COMPOSITION FOR ORGANIC OPTOELECTRONIC DEVICE, ORGANIC OPTOELECTRONIC DEVICE AND DISPLAY DEVICE									
Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
COMPOUND FOR ORGANIC	JUNG SUNG HYUN KIM	SAMSUNG SDI CO LTD	JP2016088936A JP6696753B2	2014-10-31	C07D209/86 H01L51/50	C07D209/82 (KR) C07D209/86	2016-05-23 2020-05-20	2016-05-01	055129378

OPTOELECTRONIC DEVICE, COMPOSITION FOR ORGANIC OPTOELECTRONIC DEVICE, ORGANIC OPTOELECTRONIC DEVICE AND DISPLAY DEVICE	HYUNGSUN KIM YOUN-HWAN KIM YOUNGWON RYU DONG-WAN YU EUN-SUN				C09K11/06	(EP,CN,US) C07D239/26 (CN) C07D251/24 (CN) C07D401/10 (CN) C07D403/10 (CN) C09K11/025 (EP,US) C09K11/06 (EP,CN,KR,US) H01L27/3241 (CN) H01L51/0054 (EP,US) H01L51/0067 (EP,KR,US) H01L51/0072 (EP,CN,KR,US) H01L51/50 (KR) H01L51/5012 (CN) C09K2211/1007 (US) C09K2211/1011 (EP,US) C09K2211/1025 (KR) C09K2211/1029 (EP,CN,US) C09K2211/1044 (EP,CN,US) C09K2211/1059 (EP,CN,US) C09K2211/185 (US) H01L2251/5384 (EP,US) H01L51/0059 (EP,US) H01L51/0085 (EP,US) H01L51/5016 (EP,US) H01L51/5064 (EP,US) Y10S428/917 (KR)			
---	---	--	--	--	-----------	---	--	--	--

368. LITHIUM SECONDARY BATTERY

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
LITHIUM SECONDARY BATTERY	JEONG KYEONG-MIN KIM CHEON SOO	SAMSUNG SDI CO LTD	JP2015090866A JP6687223B2	2013-11-07	H01M2/18 H01M4/13 H01M10/0587 H01M2/16	H01M10/052 (EP,CN,US) H01M2/1646 (EP,CN,US) H01M2/1653 (EP,CN,US) H01M2/1686 (EP,CN,US) H01M10/4235 (EP,CN,US) H01M2/18 (EP,CN,US)	2015-05-11 2020-04-22	2015-05-07	051870896

369. BATTERY MANAGEMENT SYSTEM AND METHOD OF DRIVING THE SAME

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
BATTERY MANAGEMENT SYSTEM AND METHOD	CHO YOUNG-SHIN LEE SOO-	SAMSUNG SDI CO LTD	JP2014228534A	2013-05-27	G01R31/36 H01M10/48	G01R31/382 (EP) H02J7/00 (US)	2014-12-08	2014-11-27	050774779

OF DRIVING THE SAME	JIN SHIM YOUNG-WOO					G01R31/367 (EP)			
370. LITHIUM ION SECONDARY BATTERY									
Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
LITHIUM ION SECONDARY BATTERY	YAMAMOTO HIDEKAZU	SAMSUNG SDI CO LTD	JP2018006046A	2016-06-28	H01M10/052 H01M10/0569 H01M2/02 H01M2/16 H01M4/13 H01M4/131 H01M4/525		2018-01-11	2018-01-05	060949583
371. PHOSPHONIUM COMPOUND, EPOXY RESIN COMPOSITION INCLUDING THE SAME AND SEMICONDUCTOR DEVICE PREPARED FROM THE SAME									
Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
PHOSPHONIUM COMPOUND, EPOXY RESIN COMPOSITION INCLUDING THE SAME AND SEMICONDUCTOR DEVICE PREPARED FROM THE SAME	CHEON JIN MIN CHOI JIN WOO CHUNG JOO YOUNG KIM MIN GYUM KWON KI HYEOK LEE DONG HWAN	SAMSUNG SDI CO LTD	JP2016084342A	2014-10-22	C07C235/64 C07C235/66 C07C323/20 C07C39/08 C07C39/17 C07C49/83 C07F9/54 C08K5/50 C08L63/00	C07C233/65 (EP,US) C07C235/64 (EP,US) C07C235/66 (EP,US) C07C259/10 (EP,US) C07C259/10 (EP,US) C07C323/20 (EP,US) C07C39/08 (EP,US) C07C39/12 (EP,US) C07C39/17 (EP,US) C07F9/5442 (EP,CN,US) C08G59/621 (EP,US) C08G59/688 (EP,CN,US) C08K5/49 (US) C08K5/50 (US) C08L63/00 (CN) C09D163/00 (EP,US) H01L23/293 (CN) H01L23/295 (EP,US) H01L24/29 (EP,US) C07C2603/18 (EP,US) H01L2224/131 (EP,US) H01L2224/16225 (EP,US) H01L2224/16227 (EP,US) H01L2224/2929 (EP,US) H01L2224/29298 (EP,US) H01L2224/32225 (EP,US) H01L2224/73204	2016-05-19	2016-04-28	055791451

						(EP,US) H01L2224/81192 (EP,US) H01L2224/92125 (EP,US) H01L23/3121 (EP,US) H01L24/13 (EP,US) H01L24/16 (EP,US) H01L24/32 (EP,US) H01L24/81 (EP,US) H01L24/92 (EP,US) H01L2924/14 (EP,US) H01L2924/181 (EP,US) H01L2224/131, H01L2924/014, ADD (EP,US) H01L2224/73204, H01L2224/16225, H01L2224/32225, H01L2924/00, ADD (EP,US) H01L2924/181, H01L2924/00012, ADD (EP,US)			
--	--	--	--	--	--	--	--	--	--

372. WOUND ELEMENT FOR NONAQUEOUS ELECTROLYTE SECONDARY BATTERY, AND NONAQUEOUS ELECTROLYTE SECONDARY BATTERY

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
WOUND ELEMENT FOR NONAQUEOUS ELECTROLYTE SECONDARY BATTERY, AND NONAQUEOUS ELECTROLYTE SECONDARY BATTERY	TAKANO YASUO	SAMSUNG SDI CO LTD	JP2016122628A JP6567821B2	2014-12-25	H01M10/0587 H01M2/02 H01M2/26 H01M4/13		2016-07-07 2019-08-28	2016-07-07	056327479

373. COMPOSITION FOR FORMING SILICA LAYER, METHOD FOR MANUFACTURING SILICA LAYER, AND SILICA LAYER

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
COMPOSITION FOR FORMING SILICA LAYER, METHOD FOR MANUFACTURING SILICA LAYER, AND SILICA LAYER	BAE JIN-HEE HWANG BYEONG-GYU KIM WOO-HAN LEE EUN-SEON YUN HUI-CHAN	SAMSUNG SDI CO LTD	JP2016216341A JP6659323B2	2015-05-15	C01B33/12 H01L21/316	C09D1/00 (CN) C09D183/16 (EP,CN,US) H01B3/46 (EP,US) H01L21/02107 (CN) C08G77/62 (EP,US)	2016-12-22 2020-03-04	2016-11-16	057276630

374. NEGATIVE ELECTRODE ACTIVE MATERIAL AND SECONDARY BATTERY INCLUDING THE SAME

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
NEGATIVE ELECTRODE ACTIVE MATERIAL AND SECONDARY BATTERY INCLUDING THE SAME	JEONG CHANGUI KIM JAE-HYUK KWON SEUNG-UK LEE CHUN-GYOO MOON SUNGWAN PARK YOHAN SAI	SAMSUNG SDI CO LTD	JP2013125743A JP6116138B2	2011-12-13	C22C27/02 C22C28/00 C22C30/02 C22C30/06 C01B33/06 C22C30/00 H01M4/38	C22C28/00 (EP,KR,US) C22C30/00 (EP,KR,US) H01M10/0525 (KR) H01M4/134 (KR) H01M4/1395 (KR)	2013-06-24 2017-04-19	2013-06-13	045894343

	SHOSHO YURY MATULEVICH					(KR) H01M4/38 (EP) H01M4/386 (EP,KR,US) H01M10/0525 (EP,US) H01M4/134 (EP,US) H01M4/1395 (EP,US) Y10T29/49108 (EP,US)			
375. LITHIUM ION SECONDARY BATTERY									
Title LITHIUM ION SECONDARY BATTERY	Inventors MAEDA HIDEAKI NAKANO MASATSUGU TAKASE HIROSHIGE	Applicants SAMSUNG SDI CO LTD	Publication number JP2012129166A JP5662132B2	Earliest priority 2010-12-17	IPC H01M4/36 H01M4/505 H01M4/525	CPC H01M10/0525 (KR) H01M4/13 (KR) H01M4/131 (KR) H01M4/366 (KR) H01M4/48 (KR) H01M4/505 (KR) H01M4/525 (KR) Y02E60/10 (KR)	Publication date 2012-07-05 2015-01-28	Earliest publication 2012-06-27	Family number 046645960
376. BATTERY PACK AND POWER SUPPLY DEVICE EQUIPPED WITH THE SAME									
Title BATTERY PACK AND POWER SUPPLY DEVICE EQUIPPED WITH THE SAME	Inventors CHOI BORA CHUNG GON-JIN LEE CHAN-JAE PARK SIN-YOUNG SON SEUNG- HYUN	Applicants SAMSUNG SDI CO LTD	Publication number JP2013223423A JP6192345B2	Earliest priority 2012-04-18	IPC H01M10/42 H01M10/44 H01M10/48 H02J7/34 H02J9/06	CPC H02J7/0016 (US) H02J7/0024 (US) H02J9/062 (EP,US) H02J7/00 (US) H02J7/0019 (US) Y10T307/62 (EP,US)	Publication date 2013-10-28 2017-09-06	Earliest publication 2013-10-23	Family number 047221919
377. COMPOUND FOR ORGANIC PHOTOELECTRONIC ELEMENT, COMPOSITION FOR ORGANIC PHOTOELECTRONIC ELEMENT, ORGANIC PHOTOELECTRONIC ELEMENT AND DISPLAY DEVICE									
Title COMPOUND FOR ORGANIC PHOTOELECTRONIC ELEMENT, COMPOSITION FOR ORGANIC PHOTOELECTRONIC ELEMENT, ORGANIC PHOTOELECTRONIC ELEMENT AND DISPLAY DEVICE	Inventors JUNG HO-KUK JUNG SUNG HYUN KIM CHANGWOO KIM HYUNGSUN LEE SEUNGJAE LUI JIN-HYUN RYU DONG-WAN SHIN CHANGJU SHIN JIHUN	Applicants SAMSUNG SDI CO LTD	Publication number JP2019194177A JP6633793B2	Earliest priority 2018-05-04	IPC C07D405/14 C09K11/06 G09F9/30 H01L27/32 H01L51/50	CPC C07D403/10 (KR) C07D405/14 (EP,CN,KR,US) C07D409/14 (CN) C09K11/06 (CN,KR) H01L51/0067 (EP,CN,KR,US) H01L51/0072 (EP,CN,KR,US) H01L51/0073 (EP,CN,KR,US) H01L51/0074 (CN) H01L51/5012 (KR) C09K2211/1007 (CN) C09K2211/1029 (KR) C09K2211/1059 (KR) C09K2211/1074 (CN) C09K2211/1088 (CN,KR) C09K2211/1092 (CN)	Publication date 2019-11-07 2020-01-22	Earliest publication 2019-02-13	Family number 065366859

						H01L2251/308 (US) H01L2251/5384 (EP) H01L2251/558 (US) H01L51/001 (US) H01L51/0085 (EP) H01L51/5012 (US) H01L51/5016 (EP) H01L51/5056 (US) H01L51/5072 (US) H01L51/5088 (US) H01L51/5206 (US) H01L51/56 (US)			
--	--	--	--	--	--	--	--	--	--

378. NEGATIVE ELECTRODE ACTIVE MATERIAL, METHOD OF PREPARING THE SAME, AND LITHIUM SECONDARY BATTERY EMPLOYING NEGATIVE ELECTRODE INCLUDING THE NEGATIVE ELECTRODE ACTIVE MATERIAL

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
NEGATIVE ELECTRODE ACTIVE MATERIAL, METHOD OF PREPARING THE SAME, AND LITHIUM SECONDARY BATTERY EMPLOYING ELECTRODE INCLUDING THE NEGATIVE ELECTRODE ACTIVE MATERIAL	KIM DOK-HYON KIM JAE-MYUNG KIM YEON-GAP SUH SOON-SUNG ZHU GYU-NAN	SAMSUNG SDI CO LTD	JP2014116306A JP6315765B2	2012-12-10	H01M4/36 H01M4/38 H01M4/48 H01M4/587 H01M4/62	C01B33/18 (EP,KR,US) H01M10/052 (KR) H01M4/0419 (EP,CN,KR,US) H01M4/13 (EP,CN,US) H01M4/134 (KR) H01M4/139 (EP,CN,KR,US) H01M4/1395 (KR) H01M4/364 (EP,CN,KR,US) H01M4/366 (KR) H01M4/38 (KR) H01M4/386 (EP,CN,KR,US) H01M4/48 (KR) H01M4/483 (EP,CN,KR,US) H01M4/485 (KR) H01M4/505 (KR) H01M4/62 (EP,CN,US) H01M4/624 (KR) H01M4/625 (EP,CN,KR,US) H01M4/663 (KR) H01M2004/021 (EP,CN,KR,US) H01M2004/027 (US) Y02E60/10 (US)	2014-06-26 2018-04-25	2014-06-11	049223681

379. ADHESIVE COMPOSITION, ADHESIVE LAYER, ADHESIVE SHEET AND IMAGE DISPLAY DEVICE

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
ADHESIVE COMPOSITION, ADHESIVE LAYER, ADHESIVE SHEET AND IMAGE DISPLAY DEVICE	INUI KUNIHICO IWASAKI REINA SUWA TATSUHIRO	SAMSUNG SDI CO LTD	JP2017095655A JP6633366B2	2015-11-27	C09J7/00 C09J11/06 C09J133/06 G02B5/30 G02F1/1335 G02F1/13363 C09J7/38	C09J11/06 (KR) C09J133/08 (KR) C09J7/20 (KR) C09J2203/318 (KR) C09J2301/312 (KR)	2017-06-01 2020-01-22	2017-06-01	058816851

380. ADHESIVE COMPOSITION, SOLUTION THEREOF, ADHESIVE LAYER, AND SURFACE PROTECTIVE FILM									
Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
ADHESIVE COMPOSITION, SOLUTION THEREOF, ADHESIVE LAYER, AND SURFACE PROTECTIVE FILM	SUWA TATSUHIRO TAKAHASHI TOSHIYUKI	SAMSUNG SDI CO LTD	JP2019104870A	2017-12-14	B32B27/00 B32B27/40 C09J11/06 C09J175/04 C09J4/02 C09J7/20	C09J11/06 (CN) C09J175/14 (CN) C09J7/30 (CN) C09J2301/408 (CN) C09J2467/006 (CN) C09J2475/00 (CN) C09J175/14, C08K5/43, INV (CN)	2019-06-27	2019-06-24	067056232
381. SECONDARY BATTERY									
Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
SECONDARY BATTERY	GUO RUNTAI HWANGBO YUP	SAMSUNG SDI CO LTD	JP2015018810A JP6523624B2	2013-07-12	H01M10/04 H01M2/02 H01M2/04	H01M2/0473 (EP,CN,US) H01M2/202 (US) H01M2/266 (US) H01M2/30 (US) H01M2/0404 (EP,CN,US) H01M2/043 (EP,CN,US) H01M2/0486 (EP,CN,US)	2015-01-29 2019-06-05	2015-01-14	050389347
382. SECONDARY BATTERY									
Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
SECONDARY BATTERY	KIM YONG-SAM SONG JANGHYUN	SAMSUNG SDI CO LTD	JP2014232729A JP6444061B2	2013-05-28	H01M2/26 H01M2/30 H01M2/34 H01M2/04 H01M2/06	H01M10/0525 (CN) H01M2/0277 (CN) H01M2/0287 (CN) H01M2/06 (EP,CN,US) H01M2/30 (EP,CN,US) H01M10/0525 (EP,US) H01M2/0277 (EP,US) H01M2/0287 (EP,US) H01M2/0404 (EP,US) H01M2/0473 (EP,US) Y02T10/70 (US)	2014-12-11 2018-12-26	2014-12-03	050389355
383. NEGATIVE ELECTRODE ACTIVE MATERIAL, AND NEGATIVE ELECTRODE AND LITHIUM BATTERY INCLUDING THE SAME, AND METHOD OF MANUFACTURING THE NEGATIVE ELECTRODE ACTIVE MATERIAL									
Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
NEGATIVE ELECTRODE ACTIVE MATERIAL, AND NEGATIVE ELECTRODE AND LITHIUM BATTERY INCLUDING THE SAME, AND METHOD OF MANUFACTURING THE NEGATIVE ELECTRODE ACTIVE MATERIAL	BOKU GENKI KIM SUNG-SU KIM YONG-UK PARK SANG-EUN SIN CHANG SOO TO GISHO	SAMSUNG SDI CO LTD	JP2015099775A JP6559412B2	2013-11-19	C01B13/14 C01G23/053 H01M4/36 H01M4/38 H01M4/48	H01M10/052 (KR) H01M4/0416 (KR,US) H01M4/0471 (EP,CN,KR,US) H01M4/134 (EP,CN,KR,US) H01M4/1395 (EP,CN,KR,US) H01M4/366 (EP,CN,KR,US)	2015-05-28 2019-08-14	2015-05-20	051932217

						H01M4/386 (EP,CN,KR,US) H01M4/62 (EP,CN,KR,US) H01M10/052 (EP,CN,US) Y02E60/10 (US) Y02T10/70 (KR,US)			
--	--	--	--	--	--	---	--	--	--

384. CAP ASSEMBLY AND SECONDARY BATTERY INCLUDING THE SAME

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
CAP ASSEMBLY AND SECONDARY BATTERY INCLUDING THE SAME	JUNG WON-IL KIM YUN-CHANG LEE SANG HYO	SAMSUNG SDI CO LTD	JP2015156374A JP6578103B2	2014-02-20	H01M10/04 H01M2/02 H01M2/04 H01M2/12 H01M2/30 H01M2/34	H01M10/05 (US) H01M10/052 (CN) H01M2/04 (EP,US) H01M2/0404 (US) H01M2/0408 (CN) H01M2/043 (US) H01M2/12 (EP) H01M2/1241 (US) H01M2/1264 (CN) H01M2200/20 (US) H01M2220/20 (US) H01M2220/30 (US) Y02E60/10 (EP)	2015-08-27 2019-09-18	2015-08-20	052345128

385. FLEXIBLE SECONDARY BATTERY

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
FLEXIBLE SECONDARY BATTERY	SOHN JU-HEE SONG HYUN- HWA SUH JUN- WON YI JEONG- DOO	SAMSUNG SDI CO LTD	JP2016021386A JP6659092B2	2014-07-14	H01M10/04 H01M2/02 H01M2/06 H01M2/08 H01M2/30	H01M10/0436 (CN) H01M2/0202 (US) H01M2/021 (CN) H01M2/0212 (EP,CN,US) H01M2/0275 (EP,US) H01M2/0404 (US) H01M2/0482 (US) H01M2/06 (EP,US) H01M2/08 (CN) H01M4/661 (US) H01M2220/30 (CN,US)	2016-02-04 2020-03-04	2016-01-14	053546142

386. BATTERY PACK

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
BATTERY PACK	BAE MIN-CHEOL NOH KYOUNG- HWAN	SAMSUNG SDI CO LTD	JP2015050186A JP6391152B2	2013-08-30	H01M10/42 H01M10/48 H01M2/10 H01M2/20	G01R31/364 (KR) H01M10/48 (EP,US) H01M10/482 (KR) H01M10/486 (EP,KR,US) H01M10/613 (EP,KR) H01M10/625 (KR) H01M10/6555 (EP) H01M2/1077 (KR) H01M2/20 (EP) H01M2/206	2015-03-16 2018-09-19	2015-03-04	051454571

						(EP) H01M2/348 (KR) H01R11/288 (EP,CN,KR) H01R13/115 (KR) H01R13/2442 (KR) G01R31/364 (EP,CN) H01M10/482 (EP) H01M2220/20 (KR) H01R11/05 (EP) H01R11/12 (EP) H01R13/115 (EP,CN) H01R13/20 (EP) H01R13/2442 (EP,CN) H01R4/4809 (EP)			
--	--	--	--	--	--	--	--	--	--

387. POWER CONVERSION SYSTEM FOR MOTOR CAR

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
POWER CONVERSION SYSTEM FOR MOTOR CAR	FURUSAWA KENJI ISHIKAWA MASAMI MURAOKA MITSUTOSHI MURAYAMA YOSHIYA YAMANE HIROSHI YOSHIDA TARO	SAMSUNG SDI CO LTD	JP2015073410A JP6339785B2	2013-10-04	H02M3/155 H02M7/48	B60L15/02 (KR) B60L3/0007 (KR) B60L3/0023 (KR) B60L3/003 (KR) B60L3/0046 (KR) B60L3/0092 (KR) B60L3/04 (KR) B60L3/12 (KR) H02H7/16 (KR) H02J7/0072 (KR) H02M1/32 (KR) B60L2210/40 (KR) H02M2001/322 (KR) Y02T10/70 (EP,KR) Y02T10/72 (KR)	2015-04-16 2018-06-06	2015-04-14	053015413

388. PHOTSENSITIVE RESIN COMPOSITION PHOTSENSITIVE RESIN LAYER USING THE SAME AND COLOR FILTER

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
PHOTSENSITIVE RESIN COMPOSITION PHOTSENSITIVE RESIN LAYER USING THE SAME AND COLOR FILTER	CHO NAM SICK [kr] JUNG JU HO [kr] KIM KYU YOUNG [kr] SEO KWANG WON [kr]	SAMSUNG SDI CO LTD [kr]	KR102061245B1 KR20180064152A	2016-12-05	G02B5/22 G03F7/00 G03F7/027 G03F7/028 G03F7/032 G03F7/105		2018-06-14 2019-12-31	2018-06-14	062629127

389. SECONDARY BATTERY

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
SECONDARY BATTERY	GUO RUNTAI HWANGBO YUP	SAMSUNG SDI CO LTD	JP2015023025A JP6518042B2	2013-07-19	H01M10/04 H01M2/02 H01M2/04	H01M2/02 (CN,US) H01M2/0217 (EP,CN,US) H01M2/04 (CN,US) H01M2/0426 (EP,CN,US) H01M2/0439 (EP,CN,US) H01M2/0456 (EP,CN,US) H01M2/0473 (CN) H01M2/0473 (EP,US)	2015-02-02 2019-05-22	2015-01-21	050031228

390. FINE PARTICLE MIXTURE FOR NONAQUEOUS ELECTROLYTE SECONDARY BATTERY, ELECTRODE FOR NONAQUEOUS ELECTROLYTE SECONDARY BATTERY, AND NONAQUEOUS ELECTROLYTE SECONDARY BATTERY									
Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
FINE PARTICLE MIXTURE FOR NONAQUEOUS ELECTROLYTE SECONDARY BATTERY, ELECTRODE FOR NONAQUEOUS ELECTROLYTE SECONDARY BATTERY, AND NONAQUEOUS ELECTROLYTE SECONDARY BATTERY	ENDO TAKAHIRO FUKUCHI IWAO MURATA TOSHIO	SAMSUNG SDI CO LTD	JP2015115107A JP6349080B2	2013-12-09	H01M10/052 H01M2/16 H01M4/13		2015-06-22 2018-06-27	2015-06-17	053515186
391. SNUBBER CIRCUIT									
Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
SNUBBER CIRCUIT	TANITSU MAKOTO	SAMSUNG SDI CO LTD	JP2016067151A JP6466121B2	2014-09-25	H02M7/48		2016-04-28 2019-02-06	2016-04-04	055799775
392. SECONDARY BATTERY									
Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
SECONDARY BATTERY	LEE HUI-JUN LEE JUNYONG MOON JOONSEOK YOO SEUNGYEOL	SAMSUNG SDI CO LTD	JP2015141891A JP6457204B2	2014-01-28	H01M2/26	H01M2/26 (EP,CN,US) H01M4/70 (US) H01M10/0587 (EP,CN,US)	2015-08-03 2019-01-23	2015-07-29	051947171
393. RECHARGEABLE BATTERY PACK									
Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
RECHARGEABLE BATTERY PACK	AHN BYUNG-KOOK	SAMSUNG SDI CO LTD	JP2015028937A JP6453569B2	2013-07-30	H01M2/10 H01M2/34	H01M10/42 (EP,CN) H01M2/34 (US)	2015-02-12 2019-01-16	2015-02-05	052427937
394. RECHARGEABLE BATTERY PACK									
Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
RECHARGEABLE BATTERY PACK	KIM HYUNG-HO	SAMSUNG SDI CO LTD	JP2014216315A JP6396065B2	2013-04-25	H01M2/10 H01M2/12	H01M2/02 (KR) H01M2/04 (KR) H01M2/1016 (EP,US) H01M2/12 (KR)	2014-11-17 2018-09-26	2014-10-30	051789492
395. CAP PLATE AND SECONDARY BATTERY INCLUDING THE SAME									
Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
CAP PLATE AND SECONDARY BATTERY INCLUDING THE SAME	KIM DOEK-CHUNG	SAMSUNG SDI CO LTD	JP2014225427A JP6491412B2	2013-05-15	H01M2/04 H01M2/12	H01M10/04 (CN) H01M10/425 (KR) H01M2/043 (US) H01M2/0439 (KR) H01M2/0456 (EP) H01M2/0473 (EP,CN,KR) H01M2/1241 (EP,CN,KR,US) H01M2/263 (EP,KR) H01M2/30 (KR) H01M10/425 (EP) H01M2/0439 (EP) H01M2/30 (EP) Y02E60/12 (KR)	2014-12-04 2019-03-27	2014-11-19	050000907
396. BATTERY PACK									

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
BATTERY PACK	CHO MAN-SIK LEE SO-RA	SAMSUNG SDI CO LTD	JP2015008117A JP6377351B2	2013-06-25	H01M10/48 H01M2/30 H01M2/10	H01M10/0404 (CN) H01M10/0436 (CN) H01M10/4257 (EP,CN,US) H01M2/1061 (EP,CN,US) H01M10/486 (EP,US)	2015-01-15 2018-08-22	2014-12-25	050289593

397. POSITIVE ELECTRODE FOR SECONDARY BATTERIES, AND SECONDARY BATTERY

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
POSITIVE ELECTRODE FOR SECONDARY BATTERIES, AND SECONDARY BATTERY	FUKAHORI HIRONORI	SAMSUNG SDI CO LTD	JP2015109154A JP6310242B2	2013-12-03	H01M4/02 H01M4/13 H01M4/131 H01M4/36 H01M4/62		2015-06-11 2018-04-11	2015-06-11	053439383

398. BATTERY PACK

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
BATTERY PACK	BAE MIN-CHEOL CHOI HONG-KEUN JEONG IK-JAE NOH KYOUNG-HWAN	SAMSUNG SDI CO LTD	JP2015056400A JP6455966B2	2013-09-13	H01M10/48 H01M2/10	H01M10/4257 (KR,US) H01M10/486 (EP,CN,KR,US) H01M2/1077 (EP,CN,KR,US) H01M2/30 (KR) H01M2/348 (KR) H01M2200/10 (EP,CN,KR,US)	2015-03-23 2019-01-23	2015-03-18	051392180

399. NEGATIVE ELECTRODE FOR LITHIUM BATTERY, LITHIUM BATTERY, METHOD OF MANUFACTURING LITHIUM BATTERY AND USING METHOD OF LITHIUM BATTERY

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
NEGATIVE ELECTRODE FOR LITHIUM BATTERY, LITHIUM BATTERY, METHOD OF MANUFACTURING LITHIUM BATTERY AND USING METHOD OF LITHIUM BATTERY	EOM HYE-RI LEE SO-RA YOON DUK-HYOUNG	SAMSUNG SDI CO LTD	JP2015216114A JP6726935B2	2014-05-09	H01M10/052 H01M10/058 H01M10/44 H01M4/134 H01M4/36 H01M4/38 H01M4/48 H01M4/62 H01M4/1395	H01M10/052 (EP,US) H01M10/058 (US) H01M10/44 (EP,US) H01M4/0404 (US) H01M4/134 (EP,US) H01M4/1395 (US) H01M4/364 (EP,US) H01M4/366 (EP,US) H01M4/38 (US) H01M4/386 (EP,US) H01M4/387 (US) H01M4/485 (US) H01M4/62 (EP,US) H01M4/624 (US) H02J7/00 (US) H01M2004/027 (US) H01M2300/004 (EP,US) H01M4/625	2015-12-03 2020-07-22	2015-11-12	054368594

						(EP,US) Y02E60/10 (US) Y02P70/50 (EP,US) Y02T10/70 (EP,US) Y10T29/49117 (EP,US)			
400. MICROCAPSULE FOR NONAQUEOUS ELECTROLYTE SECONDARY BATTERIES, SEPARATOR FOR NONAQUEOUS ELECTROLYTE SECONDARY BATTERIES, ELECTRODE FOR NONAQUEOUS ELECTROLYTE SECONDARY BATTERIES, ELECTRODE ACTIVE MATERIAL LAYER FOR NONAQUEOUS ELECTROLYTE SECONDARY BATTERIES, AND NONAQUEOUS ELECTROLYTE SECONDARY BATTERY									
Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
MICROCAPSULE FOR NONAQUEOUS ELECTROLYTE SECONDARY BATTERIES, SEPARATOR FOR NONAQUEOUS ELECTROLYTE SECONDARY BATTERIES, ELECTRODE FOR NONAQUEOUS ELECTROLYTE SECONDARY BATTERIES, ELECTRODE ACTIVE MATERIAL LAYER FOR NONAQUEOUS ELECTROLYTE SECONDARY BATTERIES, AND NONAQUEOUS ELECTROLYTE SECONDARY BATTERY	ENDO TAKAHIRO FUKUCHI IWAO MURATA TOSHIO	SAMSUNG SDI CO LTD	JP2015111530A JP6372680B2	2013-12-06	H01M2/16 H01M4/13 H01M4/62		2015-06-18 2018-08-15	2015-06-17	053515187
401. RECHARGEABLE BATTERY									
Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
RECHARGEABLE BATTERY	KIM DOEK-CHUNG	SAMSUNG SDI CO LTD	JP2015005492A JP6491817B2	2013-06-19	H01M2/04 H01M2/06 H01M2/26 H01M2/30 H01M2/34	H01M2/0217 (KR) H01M2/06 (KR) H01M2/22 (EP,CN,KR,US) H01M2/26 (CN) H01M2/30 (KR) H01M2/34 (US) H01M2/345 (EP,KR,US) H01M2/348 (EP,CN,KR,US) H01M2/0217 (EP,US) H01M2/30 (EP,US) H01M2200/103 (EP,KR,US) H01M2200/20 (EP,KR,US)	2015-01-08 2019-03-27	2014-12-24	049883026
402. BATTERY PACK									
Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
BATTERY PACK	BAE MIN-CHEOL CHOI HONG-KEUN JEONG IK-JAE NOH KYOUNG-HWAN	SAMSUNG SDI CO LTD	JP2015056399A JP6414952B2	2013-09-13	H01M2/10	F16B5/0614 (KR) F16B5/07 (KR) H01M2/0245 (KR) H01M2/10 (CN) H01M2/1016 (CN)	2015-03-23 2018-10-31	2015-03-18	051392197

						H01M2/1077 (EP,KR,US) H01M2/20 (CN) H01M2/202 (CN,KR) F16B5/0614 (EP) F16B5/07 (EP) H01M2/1072 (CN) H01M2/206 (CN)			
403. POWER CONVERSION SYSTEM FOR ELECTRIC VEHICLE									
Title POWER CONVERSION SYSTEM FOR ELECTRIC VEHICLE	Inventors FURUSAWA KENJI ISHIKAWA MASAMI MURAOKA MITSUTOSHI MURAYAMA YOSHIYA YAMANE HIROSHI YOSHIDA TARO	Applicants SAMSUNG SDI CO LTD	Publication number JP2015073408A JP6267474B2	Earliest priority 2013-10-04	IPC H02M7/48	CPC H02M3/155 (KR) H02P27/06 (KR) H02P21/14 (KR) H02P2101/45 (KR)	Publication date 2015-04-16 2018-01-24	Earliest publication 2015-04-14	Family number 053015411
404. BATTERY PACK									
Title BATTERY PACK	Inventors SUNG JAE-IL	Applicants SAMSUNG SDI CO LTD	Publication number JP2015204293A JP6733931B2	Earliest priority 2014-04-16	IPC H01M2/14 H01M2/02 H01M2/04 H01M2/34	CPC H01M2/02 (EP) H01M2/0202 (US) H01M2002/0205 (US) H01M2220/30 (US)	Publication date 2015-11-16 2020-08-05	Earliest publication 2015-10-21	Family number 053267207
405. CONTAINER FOR PRECISION MEMBER AND METHOD FOR PREPARING THE SAME									
Title CONTAINER FOR PRECISION MEMBER AND METHOD FOR PREPARING THE SAME	Inventors CHEI WOO SUK CHI JUN-HO HUR JONG CHAN LEE EUN BYUL	Applicants SAMSUNG SDI CO LTD	Publication number JP2015071456A JP6312250B2	Earliest priority 2013-10-01	IPC B65D85/38 C08G64/30 H01L21/673	CPC C08G64/06 (EP,US) C08G64/307 (EP,US) Y10T428/1397 (EP,US)	Publication date 2015-04-16 2018-04-18	Earliest publication 2015-04-02	Family number 052740428
406. NEGATIVE ELECTRODE FOR SECONDARY BATTERY, AND SECONDARY BATTERY									
Title NEGATIVE ELECTRODE FOR SECONDARY BATTERY, AND SECONDARY BATTERY	Inventors KAWASE KENICHI KOIZUMI KO YASHIRO MASANARI	Applicants SAMSUNG SDI CO LTD	Publication number JP2018073510A	Earliest priority 2016-10-25	IPC H01M4/13 H01M4/38 H01M4/48 H01M4/62 H01M4/66	CPC	Publication date 2018-05-10	Earliest publication 2018-05-10	Family number 062115628
407. BATTERY PACK									
Title BATTERY PACK	Inventors MOON DEA YON WANG HAN-JUN	Applicants SAMSUNG SDI CO LTD	Publication number JP2014107264A JP6257175B2	Earliest priority 2012-11-27	IPC H01M10/48 H01M2/10 H01M2/20 H01M2/34	CPC H01M10/443 (EP,CN,US) H01M10/482 (US) H01M10/486 (EP,CN,US) H01M2/1061 (EP,CN,US) H01M2/202 (EP,CN,US)	Publication date 2014-06-09 2018-01-10	Earliest publication 2014-04-18	Family number 048128183
408. POLYMER, ORGANIC LAYER COMPOSITION, ORGANIC LAYER, AND METHOD OF FORMING PATTERNS									
Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number

POLYMER, ORGANIC LAYER COMPOSITION, ORGANIC LAYER, AND METHOD OF FORMING PATTERNS	DOMINEA RATHWELL HEO YU-MI JUNG HYEON-IL KIM SEUNG-HYUN KWON HYO- YOUNG MUN SOO-HYEON NAMGUNG RAN	SAMSUNG SDI CO LTD	JP2016151024A	2015-02-17	C08G61/12 G03F7/11 H01L21/027	C08G12/00 (EP,US) C08G12/26 (EP,US) C08G61/124 (EP,CN,KR,US) C08G73/0672 (EP,US) C08J5/18 (KR) C08L65/00 (CN) G03F1/56 (CN) G03F7/0035 (KR) G03F7/094 (EP,US) H01L21/0276 (CN) C08G2261/1424 (EP,US) C08G2261/148 (EP,US) C08G2261/314 (EP,US) C08G2261/3241 (EP,CN,US) C08G2261/3424 (EP,US) C08G2261/64 (KR) G03F7/0752 (EP,US) H01L21/0271 (US)	2016-08-22	2016-08-18	056620831
---	---	-----------------------	---------------	------------	-------------------------------------	---	------------	------------	-----------

409. SEPARATOR FOR LITHIUM SECONDARY BATTERY AND LITHIUM SECONDARY BATTERY INCLUDING THE SAME

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
SEPARATOR FOR LITHIUM SECONDARY BATTERY AND LITHIUM SECONDARY BATTERY INCLUDING THE SAME	CHOI YEON-JOO GOH AE HUI LEE EON-MI NAM JUNG-HYUN PARK JONG- HWAN SEOK HOON	SAMSUNG SDI CO LTD	JP2016100334A	2014-11-19	H01M2/16	H01M10/052 (CN,US) H01M10/0525 (EP) H01M10/4235 (EP) H01M2/1646 (EP) H01M2/1653 (EP) H01M2/166 (US) H01M2/1666 (US) H01M2/1686 (EP,CN)	2016-05-30	2016-05-19	054065280

410. SEPARATOR FOR LITHIUM SECONDARY BATTERY, SECONDARY BATTERY, AND METHOD FOR MANUFACTURING THE SAME

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
SEPARATOR FOR LITHIUM SECONDARY BATTERY, SECONDARY BATTERY, AND METHOD FOR MANUFACTURING THE SAME	HA JEONG-KI HWANG DUCK- CHUL LEE YONG- BEOM SONG KEUN-WON	SAMSUNG SDI CO LTD	JP2013197100A JP6282401B2	2012-03-16	H01M10/052 H01M10/058 H01M2/16	H01M10/052 (KR) H01M2/162 (KR) H01M2/166 (EP,KR) H01M2/1686 (EP,KR) H01M10/052 (EP) H01M2/162 (EP) Y10T29/49108 (EP,US)	2013-09-30 2018-02-21	2013-09-18	047790056

411. ADHESIVE FOR POLARIZING PLATE, POLARIZING PLATE, AND DISPLAY DEVICE

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
ADHESIVE FOR POLARIZING PLATE, POLARIZING PLATE, AND DISPLAY DEVICE	KOBORI SHIGETO	SAMSUNG SDI CO LTD	JP2016136169A JP6438308B2	2015-01-23	C09J11/06 C09J201/06 C09J4/02 C09J5/00		2016-07-28 2018-12-12	2016-07-28	056512520

					G02B5/30 G02F1/1335				
412. COMPOSITION FOR FORMING POROUS INSULATING LAYER, ELECTRODE FOR NON-AQUEOUS ELECTROLYTE SECONDARY BATTERY, NON-AQUEOUS ELECTROLYTE SECONDARY BATTERY, AND MANUFACTURING METHOD OF ELECTRODE FOR NON-AQUEOUS ELECTROLYTE SECONDARY BATTERY									
Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
COMPOSITION FOR FORMING POROUS INSULATING LAYER, ELECTRODE FOR NON-AQUEOUS ELECTROLYTE SECONDARY BATTERY, NON-AQUEOUS ELECTROLYTE SECONDARY BATTERY, AND MANUFACTURING METHOD OF ELECTRODE FOR NON-AQUEOUS ELECTROLYTE SECONDARY BATTERY	FUKATANI TOMOYUKI HOSHIBA HIROHARU	SAMSUNG SDI CO LTD	JP2019087464A	2017-11-08	C08F226/02 C08J9/28 C08L23/00 C08L39/00 H01M4/13 H01M4/139 H01M4/62		2019-06-06	2019-05-16	066671928
413. SEPARATION MEMBRANE FOR SECONDARY BATTERY AND LITHIUM SECONDARY BATTERY INCLUDING THE SAME									
Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
SEPARATION MEMBRANE FOR SECONDARY BATTERY AND LITHIUM SECONDARY BATTERY INCLUDING THE SAME	KIM YANGSEOB KIM YONG KYOUNG KO CHANGHONG PARK JIN KYU PARK SAM JIN SEO DONG WAN	SAMSUNG SDI CO LTD	JP2017208343A	2016-05-17	H01M2/16	C08F220/48 (CN) C08J7/0427 (US) C08K3/22 (US) C09D133/20 (US) C09D5/18 (US) C09D7/61 (EP,US) H01M10/052 (CN) H01M10/0525 (CN,US) H01M2/14 (CN) H01M2/145 (CN,US) H01M2/1626 (US) H01M2/1653 (EP,US) H01M2/166 (EP,CN,US) H01M2/1666 (US) H01M2/1686 (EP,CN,US) H01M4/131 (US) H01M4/133 (US) H01M4/505 (US) H01M4/525 (US) H01M4/623 (US) H01M4/624 (US) H01M4/661 (US) C08J2323/06 (US) C08J2433/20 (US) C08K2003/2227 (US) H01M10/052 (EP,US) H01M2004/027 (US) H01M2004/028 (US) C08F220/48, C08F220/06, C08F220/585, INV (CN)	2017-11-24	2017-11-22	058714997

414. POLYMER, ORGANIC LAYER COMPOSITION, AND METHOD OF FORMING PATTERNS									
Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
POLYMER, ORGANIC LAYER COMPOSITION, AND METHOD OF FORMING PATTERNS	JEONG SEULGI KIM MIN SU KIM SUNGHWAN NAM YOUNHEE PARK YOUJUNG	SAMSUNG SDI CO LTD	JP2017110223A	2015-12-16	C08G61/10 G03F7/11 G03F7/40	C08G61/02 (EP,CN,US) C08G61/10 (US) C08G61/12 (EP,US) C08G61/124 (EP,US) C08G8/04 (EP,US) C08G8/24 (US) C08L65/00 (CN) C09D165/00 (EP,CN,US) G03F7/0035 (CN) G03F7/0752 (EP,US) G03F7/09 (CN) G03F7/094 (EP,US) G03F7/11 (US) G03F7/162 (US) G03F7/20 (US) G03F7/26 (US) G03F7/36 (US) H01L21/0332 (EP,US) H01L21/3081 (US) H01L21/3086 (US) C08G2261/1422 (EP,CN,US) C08G2261/312 (EP,US) C08G2261/314 (EP,CN,US) C08G2261/3142 (EP,CN,US) C08G2261/3241 (EP,US) C08G2261/3326 (EP,US) C08G2261/342 (CN) C08G2261/3424 (EP,US) C08G2261/344 (EP,CN,US) C08G2261/592 (CN) C08G2261/62 (CN) C08L2201/08 (CN) H01L21/3065 (US)	2017-06-22	2017-06-22	059063935
415. NEGATIVE ELECTRODE ACTIVE MATERIAL FOR LITHIUM SECONDARY BATTERY AND LITHIUM SECONDARY BATTERY INCLUDING THE SAME									
Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
NEGATIVE ELECTRODE ACTIVE MATERIAL FOR LITHIUM SECONDARY BATTERY AND LITHIUM SECONDARY BATTERY INCLUDING THE SAME	ISHIDA SUMUTO LEE MEE-YOUNG SHEN KUIYUN YI JONG-KI	SAMSUNG SDI CO LTD	JP2012064565A JP5669143B2	2010-09-16	H01M4/36 H01M4/58 H01M4/587	C01B32/956 (KR) H01M10/052 (KR) H01M10/0525 (EP) H01M4/38 (EP) H01M4/58 (KR) H01M4/624 (EP) H01M4/134 (EP)	2012-03-29 2015-02-12	2012-03-21	044587662

416. NICKEL-BASED ACTIVE MATERIAL FOR LITHIUM SECONDARY BATTERY, METHOD OF PREPARING THE SAME, AND LITHIUM SECONDARY BATTERY INCLUDING POSITIVE ELECTRODE INCLUDING THE SAME									
Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
NICKEL-BASED ACTIVE MATERIAL FOR LITHIUM SECONDARY BATTERY, METHOD OF PREPARING THE SAME, AND LITHIUM SECONDARY BATTERY INCLUDING POSITIVE ELECTRODE INCLUDING THE SAME	CHANG DONGGYU CHO KWANGHWAN HYUN JANGSUK KIM JINHWA KIM JIYOON KIM JONG-MIN YOON PIL-SANG	SAMSUNG SDI CO LTD	JP2018014326A JP6635987B2	2016-07-20	H01M4/36 H01M4/505 H01M4/525	C01G53/006 (EP,US) C01G53/42 (EP,US) C01G53/50 (EP,US) H01M4/485 (EP,US) H01M4/505 (EP,US) H01M4/525 (EP,US) C01P2002/72 (EP,US) C01P2002/85 (EP,US) C01P2004/03 (EP,US) C01P2004/50 (EP,US) C01P2004/61 (EP,US) C01P2004/84 (EP,US) C01P2004/90 (EP,US) C01P2006/12 (EP,US) C01P2006/14 (EP,US) C01P2006/16 (EP,US) C01P2006/40 (EP,US) H01M10/052 (EP,US) H01M2004/021 (US) H01M2004/028 (US)	2018-01-25 2020-01-29	2018-01-24	059383498

417. NICKEL-BASED ACTIVE MATERIAL FOR LITHIUM SECONDARY BATTERY, METHOD OF PREPARING THE SAME, AND LITHIUM SECONDARY BATTERY INCLUDING POSITIVE ELECTRODE INCLUDING THE SAME									
Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
NICKEL-BASED ACTIVE MATERIAL FOR LITHIUM SECONDARY BATTERY, METHOD OF PREPARING THE SAME, AND LITHIUM SECONDARY BATTERY INCLUDING POSITIVE ELECTRODE INCLUDING THE SAME	CHANG DONGGYU CHO KWANGHWAN HYUN JANGSUK KIM JINHWA KIM JIYOON KIM JONG-MIN YOON PIL-SANG	SAMSUNG SDI CO LTD	JP2020064849A	2016-07-20	C01G53/00 H01M4/36 H01M4/505 H01M4/525		2020-04-23	2018-01-30	061070699

418. POLYMER ELECTROLYTE FILM FOR DIRECT OXIDATION TYPE FUEL CELL, MANUFACTURING METHOD THEREFOR, AND DIRECT OXIDATION TYPE FUEL CELL SYSTEM INCLUDING THE SAME									
Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
POLYMER ELECTROLYTE FILM FOR DIRECT	KIM YOU-MEE KWEON HO-JIN	SAMSUNG SDI CO LTD		2004-10-14	H01M8/02 H01M8/10	H01M8/1009 (KR) H01M8/1044 (KR)		2006-04-26	036748012

OXIDATION TYPE FUEL CELL, MANUFACTURING METHOD THEREFOR, AND DIRECT OXIDATION TYPE FUEL CELL SYSTEM INCLUDING THE SAME	RHEE HEE-WOO SONG MIN-KYU		JP2012069536A JP5830386B2			H01M8/1051 (KR) H01M8/1053 (KR) H01M8/106 (KR) H01M8/1081 (KR) Y02E60/50 (KR) Y02P70/50 (EP,KR)	2012-04-05 2015-12-09		
--	------------------------------	--	------------------------------	--	--	---	--------------------------	--	--

419. SECONDARY BATTERY

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
SECONDARY BATTERY	AHN CHANG-BUM	SAMSUNG SDI CO LTD	JP2013041822A JP6124526B2	2011-08-18	H01M10/04 H01M2/26 H01M2/34	H01M10/0431 (EP,US) H01M10/0468 (EP,US) H01M10/4235 (EP,US) H01M2/1673 (EP,US) H01M2/18 (EP,US) H01M10/049 (EP,US)	2013-02-28 2017-05-10	2013-02-20	046148638

420. POSITIVE ELECTRODE ACTIVE MATERIAL AND LITHIUM SECONDARY BATTERY

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
POSITIVE ELECTRODE ACTIVE MATERIAL AND LITHIUM SECONDARY BATTERY	KIM JI-HYUN KIM KI HYUN LEE HA-YOUNG LIU RONGZAN PARK SANG-IN SONG JAE-HYOK	SAMSUNG SDI CO LTD	JP2013247109A JP6296682B2	2012-05-23	H01M10/052 H01M10/0566 H01M4/58	C01B25/45 (EP,KR,US) H01M10/0525 (KR) H01M4/136 (KR) H01M4/1397 (KR) H01M4/5825 (EP,KR,US) H01M10/0525 (EP,US) H01M2004/021 (EP,KR,US) Y02P70/54 (KR)	2013-12-09 2018-03-20	2013-11-27	047665971

421. COMPOSITION FOR FORMING ELECTRODE, ELECTRODE MANUFACTURED USING THE SAME, AND SOLAR CELL

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
COMPOSITION FOR FORMING ELECTRODE, ELECTRODE MANUFACTURED USING THE SAME, AND SOLAR CELL	JUNG MYUNG-SUNG KIM TAE JOON KOO HYUNJIN KWON DAECHAN LEE JISEON PARK MIN-SU PARK SANG HEE	SAMSUNG SDI CO LTD	JP2017112097A	2015-12-15	H01B1/16 H01B1/22 H01L31/0224	C03C3/122 (EP,US) C03C4/14 (US) C03C8/04 (EP,US) C03C8/18 (EP,US) C09D1/00 (EP,US) C09D5/24 (EP,US) H01L31/022425 (EP,US) C03C2205/00 (US) Y02E10/50 (EP)	2017-06-22	2017-06-15	059020236

422. POSITIVE ELECTRODE ACTIVE MATERIAL FOR LITHIUM SECONDARY BATTERY, METHOD OF PREPARING THE SAME, AND LITHIUM SECONDARY BATTERY INCLUDING THE SAME

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
POSITIVE ELECTRODE ACTIVE MATERIAL FOR LITHIUM SECONDARY BATTERY, METHOD OF PREPARING THE SAME, AND LITHIUM	KIM JI-HYUN PARK HAN-OL RYU YOSAN	SAMSUNG SDI CO LTD	JP2014032961A JP6366908B2	2012-08-03	H01M10/052 H01M10/0566 H01M4/58 C01B25/45	C01B25/45 (EP,CN,KR,US) H01M10/0525 (KR) H01M4/134 (KR) H01M4/136 (KR) H01M4/1395 (KR) H01M4/1397	2014-02-20 2018-08-01	2014-02-05	048613524

SECONDARY BATTERY INCLUDING THE SAME						(KR) H01M4/5825 (EP,CN,KR,US) H01M10/052 (EP,CN,US) H01M2220/30 (KR) Y02E60/10 (US) Y02P70/50 (KR)			
--------------------------------------	--	--	--	--	--	---	--	--	--

423. LITHIUM-ION SECONDARY BATTERY SEPARATOR AND LITHIUM-ION SECONDARY BATTERY

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
LITHIUM-ION SECONDARY BATTERY SEPARATOR AND LITHIUM-ION SECONDARY BATTERY	KAJITA ATSUSHI	SAMSUNG SDI CO LTD	JP2020064879A	2020-01-21	H01M2/16		2020-04-23	2020-04-23	070387523

424. BATTERY PACK

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
BATTERY PACK	HA SEON JUN	SAMSUNG SDI CO LTD	JP2016157670A	2015-02-25	H01M2/10 H01M2/20	H01M10/04 (CN) H01M2/0473 (KR) H01M2/06 (KR,US) H01M2/1016 (CN,KR,US) H01M2/1061 (EP,KR,US) H01M2/1077 (EP,KR,US) H01M2/202 (EP,KR,US) H01M2/26 (CN) H01M2/266 (KR) H01M2220/20 (EP,US) H01M2220/30 (EP,US) Y02E60/12 (KR)	2016-09-01	2016-08-25	055411319

425. POWER SUPPLY SYSTEM AND BASE STATION SYSTEM

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
POWER SUPPLY SYSTEM AND BASE STATION SYSTEM	TATSUTA TOSHIKI	SAMSUNG SDI CO LTD	JP2016111893A JP6487196B2	2014-12-10	H02J3/32 H02J3/38 H02J7/35	Y02E10/76 (EP) Y02E70/30 (EP)	2016-06-20 2019-03-20	2016-06-20	056122418

426. COMPOSITION FOR POSITIVE ELECTRODE PROTECTIVE FILM OF LITHIUM SECONDARY BATTERY, LITHIUM SECONDARY BATTERY INCLUDING THE POSITIVE ELECTRODE PROTECTIVE FILM AND METHOD OF MANUFACTURING THE LITHIUM SECONDARY BATTERY

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
COMPOSITION FOR POSITIVE ELECTRODE PROTECTIVE FILM OF LITHIUM SECONDARY BATTERY, LITHIUM SECONDARY BATTERY INCLUDING THE POSITIVE ELECTRODE PROTECTIVE FILM AND METHOD OF MANUFACTURING THE LITHIUM SECONDARY BATTERY	CHO IN HAENG HUR SOHYUN KIM SUNG-SOO PARK YONG-CHUL ROH SAE-WEON	SAMSUNG SDI CO LTD	JP2012099460A JP5907682B2	2010-11-02	H01M2/16 H01M4/13 H01M4/139	H01M10/052 (EP,US) H01M10/0525 (KR) H01M10/0562 (EP,US) H01M10/0565 (EP,US) H01M10/4235 (KR) H01M4/131 (KR) H01M4/366 (EP,US) H01M4/62 (KR) H01M10/0525 (US) H01M2/16 (US)	2012-05-24 2016-04-26	2012-05-02	045346207

						H01M2300/004 (KR) H01M2300/0045 (EP,US) H01M4/131 (EP,US) H01M4/628 (US) Y02E60/10 (US) Y02P70/50 (EP,US) Y10T29/49115 (EP,US)			
--	--	--	--	--	--	---	--	--	--

427. POSITIVE ELECTRODE FOR NONAQUEOUS ELECTROLYTE SECONDARY BATTERY, AND NONAQUEOUS ELECTROLYTE SECONDARY BATTERY

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
POSITIVE ELECTRODE FOR NONAQUEOUS ELECTROLYTE SECONDARY BATTERY, AND NONAQUEOUS ELECTROLYTE SECONDARY BATTERY	FUKATANI TOMOYUKI HOSHIBA HIROHARU TAKEI YUKI	SAMSUNG SDI CO LTD	JP2019003801A	2017-06-14	H01M4/131 H01M4/36 H01M4/505 H01M4/525		2019-01-10	2018-12-24	065006263

428. ELECTRODE FOR LITHIUM SECONDARY BATTERIES, AND LITHIUM SECONDARY BATTERY INCLUDING THE SAME

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
ELECTRODE FOR LITHIUM SECONDARY BATTERIES, AND LITHIUM SECONDARY BATTERY INCLUDING THE SAME	GOH EUN-YOUNG LEE JIN-HYON PARK SANG-IN SOHN JU-HEE WON JUNG-YUN YI JONG-KI	SAMSUNG SDI CO LTD	JP2015050189A	2013-09-03	H01M4/13 H01M4/36	H01M10/0525 (CN) H01M4/13 (EP,CN,US) H01M4/366 (EP,US) H01M4/62 (EP,CN,US) H01M4/622 (CN) H01M10/052 (EP,US) H01M2/36 (EP,US) H01M2220/20 (CN) H01M4/131 (EP,US) H01M4/139 (EP,US) H01M4/625 (EP,US)	2015-03-16	2015-03-04	051421831

429. COATING WIDTH ADJUSTABLE SLOT DIE

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
COATING WIDTH ADJUSTABLE SLOT DIE	HAM WOONG SIK HWANG JEE SANG KIM SU HWAN KIM TAE WON SEO WON SUB	SAMSUNG SDI CO LTD	JP2013176748A JP6057539B2	2012-02-28	B05D1/26 B05C5/02	B05B1/04 (KR) B05C11/10 (KR) B05C5/02 (KR) B05D1/26 (KR)	2013-09-09 2017-01-11	2013-09-05	049087873

430. POSITIVE ACTIVE MATERIAL FOR RECHARGEABLE LITHIUM BATTERY, METHOD OF MANUFACTURING THE SAME, AND POSITIVE ELECTRODE AND RECHARGEABLE LITHIUM BATTERY INCLUDING THE SAME

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
POSITIVE ACTIVE MATERIAL FOR RECHARGEABLE LITHIUM BATTERY, METHOD OF MANUFACTURING THE	AN JUNG-WOO ISHIDA SUMIHITO JEOUNG JIN-MAN KIM YOUNG-KEE	SAMSUNG SDI CO LTD	JP2015023021A	2013-07-19	C01G45/00 C01G53/00 H01M10/0525 H01M10/0566 H01M2/16	C01F7/002 (US) C01G53/04 (US) H01M10/052 (EP,CN,US) H01M2/16 (US)	2015-02-02	2015-01-21	050382377

SAME, AND POSITIVE ELECTRODE AND RECHARGEABLE LITHIUM BATTERY INCLUDING THE SAME					H01M4/131 H01M4/36 H01M4/505 H01M4/525 H01M4/583	H01M4/131 (EP,CN,US) H01M4/1391 (EP,CN,US) H01M4/36 (US) H01M4/485 (EP,CN,US) H01M4/505 (EP,CN,US) H01M4/525 (EP,CN,US) H01M4/583 (US) H01M4/625 (EP,CN,US) H01M2004/021 (EP,CN,US) H01M2004/028 (EP,CN,US) H01M2220/30 (EP,CN,US) H01M4/0471 (EP,CN,US)			
--	--	--	--	--	--	---	--	--	--

431. SEPARATOR LAYER FOR SECONDARY BATTERY AND SECONDARY BATTERY

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
SEPARATOR LAYER FOR SECONDARY BATTERY AND SECONDARY BATTERY	TAKASE HIROSHIGE	SAMSUNG SDI CO LTD	JP2013037905A JP5848545B2	2011-08-08	H01M10/0568 H01M10/052 H01M10/0569 H01M2/16 H01M10/0567	H01M10/052 (KR) H01M10/0566 (KR) H01M10/058 (KR) H01M2/1653 (KR) H01M2/1673 (KR) H01M2/18 (KR) Y02P70/50 (KR)	2013-02-21 2016-01-27	2013-02-21	047887338

432. CYLINDRICAL LITHIUM ION SECONDARY BATTERY

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
CYLINDRICAL LITHIUM ION SECONDARY BATTERY	KIM DAIKEI	SAMSUNG SDI CO LTD	JP2014036014A JP6178064B2	2012-08-08	H01M10/0525 H01M10/0566 H01M2/02 H01M2/12 H01M10/052 H01M10/0587	H01M10/0525 (EP,CN,US) H01M2/022 (EP,CN,US) H01M2/1241 (EP,CN,US) Y02E60/10 (US) Y02T10/70 (EP,US)	2014-02-24 2017-08-09	2014-02-12	048484995

433. ADHESIVE COMPOSITION FOR OPTICAL FILMS, ADHESIVE LAYER AND METHOD FOR PRODUCING THE SAME, OPTICAL MEMBER, AND IMAGE DISPLAY DEVICE

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
ADHESIVE COMPOSITION FOR OPTICAL FILMS, ADHESIVE LAYER AND METHOD FOR PRODUCING THE SAME, OPTICAL MEMBER, AND IMAGE DISPLAY DEVICE	INUI KUNIHICO OGAWA HIROSHI SUWA TATSUHIRO TAKAHASHI TOSHIYUKI	SAMSUNG SDI CO LTD	JP2018024831A	2016-08-09	B32B27/00 B32B27/30 C08F220/12 C09J11/06 C09J133/06 C09J175/04 C09J7/00 C09J7/20	C09J11/06 (KR) C09J11/08 (KR) C09J133/08 (KR) C09J133/10 (KR) C09J7/20 (KR) G02B1/10 (KR) G02B5/30 (KR) C09J2301/312 (KR)	2018-02-15	2018-02-15	061195474

434. POSITIVE ELECTRODE MATERIAL, POSITIVE ELECTRODE INCLUDING THE SAME AND LITHIUM BATTERY INCLUDING THE POSITIVE ELECTRODE

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number

POSITIVE ELECTRODE MATERIAL, POSITIVE ELECTRODE INCLUDING THE SAME AND LITHIUM BATTERY INCLUDING THE POSITIVE ELECTRODE	KIM EUNJUNG KIM IN KIM JAEKYUNG KIM YOUNGEUN LEE JONGBUM YANG SANGWOON	SAMSUNG SDI CO LTD	JP2016042461A	2014-08-13	H01M4/13 H01M4/505 H01M4/525 H01M4/58 H01M4/62	H01M10/0525 (CN) H01M4/131 (EP,US) H01M4/133 (CN,US) H01M4/362 (CN) H01M4/364 (US) H01M4/485 (US) H01M4/587 (US) H01M4/625 (EP,CN,US) C01P2004/64 (EP,US) C01P2006/12 (EP,US) C01P2006/19 (EP,US) C01P2006/40 (EP,US) C09C1/44 (EP,US) C09C1/46 (EP,US) H01M10/052 (EP,US) H01M10/0525 (EP,US) H01M10/44 (EP,US) H01M2004/027 (US) H01M2004/028 (US) H01M2220/20 (EP,US) H01M2300/004 (EP,US) H01M4/505 (EP,US) H01M4/525 (EP,US) H01M4/623 (EP,US) Y02E60/10 (EP,US) Y02P70/50 (EP,US)	2016-03-31	2016-02-17	053835363
---	---	-----------------------	---------------	------------	--	---	------------	------------	-----------

435. BINDER FOR SECONDARY BATTERY, BINDER RESIN COMPOSITION FOR SECONDARY BATTERY, ELECTRODE FOR SECONDARY BATTERY, AND SECONDARY BATTERY

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
BINDER FOR SECONDARY BATTERY, BINDER RESIN COMPOSITION FOR SECONDARY BATTERY, ELECTRODE FOR SECONDARY BATTERY, AND SECONDARY BATTERY	FUKUCHI IWAO	SAMSUNG SDI CO LTD	JP2019121482A	2017-12-28	C08F220/06 H01M4/62		2019-07-22	2019-07-08	067256879

436. LITHIUM BATTERY AND MANUFACTURING METHOD OF LITHIUM BATTERY

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
LITHIUM BATTERY AND MANUFACTURING	HAN SU-HEE IM JIN-HYOK KIM	SAMSUNG SDI CO LTD		2010-06-21	H01M10/0525 H01M10/0567	H01M10/0525 (EP)		2011-12-21	044341832

METHOD OF LITHIUM BATTERY	JUN-SONG OH M-HYON PARK NARE		JP2012004121A JP5613625B2		H01M10/0569 H01M10/058 H01M4/131 H01M4/485	H01M10/0567 (EP) H01M4/485 (EP) H01M6/168 (EP) H01M10/4235 (EP) H01M2004/021 (EP) H01M2300/0025 (EP) Y10T29/49108 (EP,US)	2012-01-05 2014-10-29		
---------------------------	------------------------------	--	------------------------------	--	---	--	--------------------------	--	--

437. POSITIVE ELECTRODE ACTIVE MATERIAL, AND POSITIVE ELECTRODE AND LITHIUM BATTERY ADOPTING THE SAME

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
POSITIVE ELECTRODE ACTIVE MATERIAL, AND POSITIVE ELECTRODE AND LITHIUM BATTERY ADOPTING THE SAME	KIM JUN-SIC KIM SUNG-SOO LEE SEO-JAE LEE SOKUN SHIN SEIJUN	SAMSUNG SDI CO LTD	JP2012190786A JP6236197B2	2011-03-09	H01M10/0525 H01M4/131 H01M4/136 H01M4/36 H01M4/525 H01M4/58 H01M10/052 H01M4/505	C01G51/42 (EP,KR) C01G53/42 (EP,KR) C01G53/50 (EP,KR) H01M10/0525 (CN,KR) H01M4/043 (KR) H01M4/13 (CN) H01M4/1315 (KR) H01M4/364 (EP,KR) H01M4/505 (KR) H01M4/525 (EP,CN,KR) H01M4/5825 (EP,CN,KR) C01P2002/54 (EP) C01P2004/80 (EP) C01P2006/40 (EP) H01M10/052 (EP) H01M2004/021 (EP,KR) H01M4/043 (EP) H01M4/505 (EP)	2012-10-04 2017-11-22	2012-09-12	045571466

438. SEMICONDUCTOR RESIST COMPOSITION, AND METHOD OF FORMING PATTERNS USING THE SAME

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
SEMICONDUCTOR RESIST COMPOSITION, AND METHOD OF FORMING PATTERNS USING THE SAME	CHAE SEUNGYONG CHEON HWAN-SUNG KIM JAE-HYUN MOON KYUNG SOO NA YOONG-HEE NAMGUNG RAN	SAMSUNG SDI CO LTD	JP2020021071A	2018-07-31	C07F7/22 G03F7/004 G03F7/038 G03F7/075 G03F7/20	G03F7/0035 (CN) G03F7/004 (CN)	2020-02-06	2020-02-06	069383954

439. COMPOSITION FOR HEAT RESISTANT POROUS LAYER FORMATION, SEPARATION FILM INCLUDING HEAT RESISTANT POROUS LAYER, ELECTROCHEMICAL BATTERY ARRANGED BY USE OF SEPARATION FILM, AND METHOD FOR MANUFACTURING SEPARATION FILM

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
COMPOSITION FOR HEAT RESISTANT POROUS LAYER FORMATION, SEPARATION FILM INCLUDING HEAT RESISTANT POROUS	CHOI HYEON SUN CHOI JONG SUP PARK JIN KYU	SAMSUNG SDI CO LTD	JP2016127028A	2014-12-30	C08F2/44 C08F251/00 C08F259/00 C08F263/00 C08F265/00 C08F283/00	C08F114/22 (CN) C08F122/14 (CN) C08F214/22 (CN) C08G65/3322 (EP,US) C08J5/22 (KR) C08J9/00	2016-07-11	2015-09-10	054247817

LAYER, ELECTROCHEMICAL BATTERY ARRANGED BY USE OF SEPARATION FILM, AND METHOD FOR MANUFACTURING SEPARATION FILM					C08F285/00 H01M2/16	(KR) C08K3/00 (KR) C08K3/20 (KR) C08L35/02 (CN) C08L71/02 (KR) D06N3/042 (CN) D06N3/047 (CN) H01M10/052 (CN) H01M10/0525 (CN,US) H01M2/14 (CN) H01M2/145 (EP,US) H01M2/16 (CN,KR) H01M2/1653 (EP,US) H01M2/166 (EP,US) H01M2/1686 (EP,US) H01M10/052 (EP,US) C08L35/02, C08L27/16, C08K2003/2227, INV (CN)			
---	--	--	--	--	------------------------	--	--	--	--

440. SEPARATOR AND METHOD OF MANUFACTURING THE SAME, AND LITHIUM SECONDARY BATTERY INCLUDING THE SEPARATOR

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
SEPARATOR AND METHOD OF MANUFACTURING THE SAME, AND LITHIUM SECONDARY BATTERY INCLUDING THE SEPARATOR	CHOE GYUN SEOK KIM IN PARK SAM-JIN YEOU JUNG-OCK	SAMSUNG SDI CO LTD	JP2013235824A JP6280693B2	2012-05-10	H01M2/16	H01M10/052 (EP,KR,US) H01M2/145 (EP,KR,US) H01M2/1633 (KR,US) H01M2/1646 (KR) H01M2/1653 (KR) H01M2/166 (EP,KR,US) H01M2/1673 (US) H01M2/168 (US) H01M2/1686 (EP,US) H01M2/1646 (EP,US) H01M2/1653 (EP,US) Y02P70/54 (KR)	2013-11-21 2018-02-14	2013-11-13	048236736

441. BATTERY PACK AND CONTROL METHOD THEREFOR

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
BATTERY PACK AND CONTROL METHOD THEREFOR	JU RI-A KIM HYUN KIM SUK- KYUM LIM JI HONG PARK SEONG-JOON	SAMSUNG SDI CO LTD	JP2013201891A JP6257162B2	2012-03-23	B60L50/15 B60R16/03 B60R16/033 B60R16/04 H01M2/10 H02J7/14	B60L50/62 (EP,US) B60L58/18 (EP,US) F02N11/04 (US) F02N11/0866 (EP,US) H01M10/441 (EP,US) H02J1/06 (EP,US) H02J7/0019	2013-10-03 2018-01-10	2013-09-25	049194704

						(EP,US) H02J7/007 (US) B60L2240/547 (EP,US) B60L2240/549 (EP,US) F02N11/087 (EP,US) H02J2310/46 (EP) H02J2310/48 (EP) Y02T10/62 (EP,US) Y02T10/70 (EP,US) Y02T10/7072 (EP,US)			
--	--	--	--	--	--	--	--	--	--

442. ELECTRODE FOR LITHIUM SECONDARY BATTERY, AND LITHIUM SECONDARY BATTERY COMPRISING THE SAME

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
ELECTRODE FOR LITHIUM SECONDARY BATTERY, AND LITHIUM SECONDARY BATTERY COMPRISING THE SAME	CHO CHAE WOONG CHOE GYUN SEOK JANG BEOM JIN KIM KI-JOON YI MENG-EUN ZHANG YUN SHUO	SAMSUNG SDI CO LTD	JP2012151112A JP5904796B2	2011-01-20	H01M10/052 C08G18/32 H01M4/136 H01M4/36 H01M4/58 H01M4/62	H01M10/052 (KR) H01M10/0525 (KR) H01M4/13 (KR) H01M4/136 (KR) H01M4/58 (EP,KR,US) H01M4/366 (EP,KR,US) H01M4/58 (KR) H01M4/5825 (EP,KR,US) H01M4/60 (KR) H01M4/602 (US) H01M4/604 (KR,US) H01M4/62 (EP,KR,US) H01M4/621 (KR) H01M4/622 (EP,KR,US) H01M10/052 (EP,US) H01M2220/30 (KR) Y02E60/10 (US) Y02P70/50 (KR)	2012-08-09 2016-04-20	2012-07-26	046544395

443. CATHODE AND LITHIUM BATTERY ADOPTING THIS

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
CATHODE AND LITHIUM BATTERY ADOPTING THIS	PARK KYU-SUNG	SAMSUNG SDI CO LTD	JP2010135329A JP5972513B2	2008-12-05	H01M4/13 H01M4/131 H01M10/052 H01M10/0566 H01M4/06 H01M4/36 H01M4/485 H01M4/505 H01M4/525 H01M6/16	H01M10/052 (EP,US) H01M4/364 (US) H01M4/485 (EP,US) H01M4/505 (EP,US) H01M4/525 (EP,US) H01M4/0404 (EP,US) H01M4/62 (US) H01M4/64 (US) Y02E60/10 (US)	2010-06-17 2016-08-17	2010-06-10	042231459

444. COMPOSITE NEGATIVE ELECTRODE ACTIVE MATERIAL, AND NEGATIVE ELECTRODE AND LITHIUM BATTERY ADOPTING THE SAME									
Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
COMPOSITE NEGATIVE ELECTRODE ACTIVE MATERIAL, AND NEGATIVE ELECTRODE AND LITHIUM BATTERY ADOPTING THE SAME	HWANG SEUNG-SIK KIM HAN-SOO	SAMSUNG SDI CO LTD	JP2009026760A JP5673988B2	2007-07-19	H01M4/36 H01M4/62 H01M10/052 H01M10/0566 H01M4/38 H01M4/587	H01M10/052 (KR) H01M4/133 (KR) H01M4/134 (KR) H01M4/1393 (EP,US) H01M4/364 (KR) H01M4/386 (KR) H01M4/583 (EP,US) H01M4/587 (KR) H01M4/621 (EP,KR,US) H01M4/624 (EP,US) Y02E60/10 (US)	2009-02-05 2015-02-18	2009-01-22	040265097
445. MOTOR CONTROL METHOD AND MOTOR CONTROL SYSTEM									
Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
MOTOR CONTROL METHOD AND MOTOR CONTROL SYSTEM	MURAYAMA YOSHIYA YAMANE HIROSHI	SAMSUNG SDI CO LTD	JP2014151700A JP6298233B2	2013-02-06	B60K6/28 B60K6/485 B60W10/08 B60W20/00 H02P27/06 B60K6/26	B60W10/08 (KR) B60W20/00 (KR) Y02T10/62 (EP,KR)	2014-08-25 2018-03-20	2014-08-14	051574011
446. BACKWARD IMPACT EXTRUSION APPARATUS FOR MANUFACTURING RECHARGEABLE BATTERY CASE, AND RECHARGEABLE BATTERY CASE MANUFACTURING METHOD USING THE SAME									
Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
BACKWARD IMPACT EXTRUSION APPARATUS FOR MANUFACTURING RECHARGEABLE BATTERY CASE, AND RECHARGEABLE BATTERY CASE MANUFACTURING METHOD USING THE SAME	JANG YEONG JIN JUNG DEOK JIN	SAMSUNG SDI CO LTD	JP2015138778A JP6463925B2	2014-01-22	B21D51/26 B21J5/06 B21K21/04 H01M2/02	B21D37/10 (CN) H01M2/02 (CN)	2015-07-30 2019-02-06	2015-07-22	053560178
447. SECONDARY BATTERY									
Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
SECONDARY BATTERY	KIM DOEK-CHUNG	SAMSUNG SDI CO LTD	JP2015097194A JP6445805B2	2013-11-15	H01M2/30 H01M2/34 H01M2/22	H01M10/02 (KR) H01M10/0431 (KR) H01M2/06 (EP,CN,KR,US) H01M2/22 (EP,CN,US) H01M2/26 (EP,CN,US) H01M2/263 (KR) H01M2/38 (EP,CN,KR,US) H01M10/02 (EP,US) H01M2/263 (EP,US)	2015-05-21 2018-12-26	2015-05-20	050933089
448. VEHICLE BATTERY SYSTEM INCLUDING MULTIPLE BATTERY PACK AND OPERATING METHOD OF VEHICLE BATTERY SYSTEM									
Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number

VEHICLE BATTERY SYSTEM INCLUDING MULTIPLE BATTERY PACK AND OPERATING METHOD OF VEHICLE BATTERY SYSTEM	GU JAE SUNG LIM JI HONG RHEU WOON SUN SONG WI- HWAN WOO SEOK-GYUN	SAMSUNG SDI CO LTD	JP2014212101A JP6641074B2	2013-04-19	B60L11/18 B60L50/15 B60L50/16 H01M10/0525 H01M2/10 H01M4/505 H01M4/525 H01M4/58 H01M4/587 H02J7/02 H02J7/16 B60L50/60	B60L11/1868 (US) B60L50/16 (EP,US) B60L58/12 (EP,KR,US) B60L58/20 (EP,US) B60L58/21 (EP,KR,US) H01M10/0525 (EP,KR,US) H01M16/00 (EP,US) H01M4/131 (KR) H01M4/5825 (EP,KR,US) H01M4/583 (KR) H01M4/587 (EP,KR,US) B60L2240/547 (EP,US) B60L2240/549 (EP,US) B60L2240/662 (EP,US) H01M10/06 (EP,US) H01M10/441 (EP,US) H01M2220/20 (EP,US) H02J2310/48 (EP) H02J7/0013 (EP,US) H02J7/1423 (EP,US) Y02E60/10 (EP,US) Y02T10/70 (EP,KR,US) Y02T10/7072 (EP,KR,US) Y02T10/72 (EP,US) Y02T90/16 (EP,US)	2014-11-13 2020-02-05	2014-10-22	050336212
---	--	-----------------------	------------------------------	------------	--	--	--------------------------	------------	-----------

449. ELECTRODE ASSEMBLY AND SECONDARY BATTERY INCLUDING THE SAME

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
ELECTRODE ASSEMBLY AND SECONDARY BATTERY INCLUDING THE SAME	LEE HYUNG-DONG	SAMSUNG SDI CO LTD	JP2015026611A JP6497728B2	2013-07-26	H01M10/04 H01M2/26	H01M10/0431 (EP,US) H01M10/05 (CN) H01M10/058 (CN) H01M10/0587 (EP,US) H01M4/043 (EP,US) H01M4/13 (CN) H01M4/139 (CN) H01M10/052 (EP,US) H01M2/26	2015-02-05 2019-04-10	2015-01-28	050542968

						(EP,US) H01M2/347 (EP,US) Y02T10/70 (US) Y10T29/49108 (EP,US)			
--	--	--	--	--	--	--	--	--	--

450. PROTECTIVE DEVICE FOR SECONDARY BATTERY

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
PROTECTIVE DEVICE FOR SECONDARY BATTERY	KIM DOEK-CHUNG	SAMSUNG SDI CO LTD	JP2015202029A JP6639788B2	2014-04-07	H01M10/44 H01M10/48 H01M2/10 H01M2/34 H02H7/16 H02H7/18	B60L3/0046 (US) B60L3/04 (EP,US) B60L50/64 (EP,US) B60L58/15 (EP,US) B60L58/18 (EP,US) H01M2/345 (EP,US) H02J7/0031 (US) H01M10/0525 (EP,US) H01M2200/103 (EP,US) H02J7/00302 (EP,US) Y02E60/10 (EP,US) Y02T10/70 (EP,US)	2015-11-12 2020-02-05	2015-10-08	053175244

451. Thermoplastic Resin Composition and Molded Article Comprising the Same

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
Thermoplastic Resin Composition and Molded Article Comprising the Same	PARK JEONG EUN [kr]	LOTTE ADVANCED MAT CO LTD [kr]	US2017058122A1	2015-08-31	C08L69/00	C08L69/00 (EP,US) C08G63/181 (EP) C08L69/00, C08K3/34, C08L67/02, INV (EP)	2017-03-02	2017-03-02	058097628

452. SEPARATOR FOR LITHIUM ION SECONDARY BATTERIES, AND LITHIUM ION SECONDARY BATTERY

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
SEPARATOR FOR LITHIUM ION SECONDARY BATTERIES, AND LITHIUM ION SECONDARY BATTERY	KAJITAATSUSHI	SAMSUNG SDI CO LTD	JP2015122223A JP6693689B2	2013-12-24	H01M2/16		2015-07-02 2020-05-13	2015-07-02	053533681

453. LITHIUM SECONDARY BATTERY SEPARATOR, LITHIUM SECONDARY BATTERY FOR WHICH LITHIUM SECONDARY BATTERY SEPARATOR IS ADOPTED, AND MANUFACTURING METHOD THEREOF

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
LITHIUM SECONDARY BATTERY SEPARATOR, LITHIUM SECONDARY BATTERY FOR WHICH LITHIUM SECONDARY BATTERY SEPARATOR IS ADOPTED, AND MANUFACTURING METHOD THEREOF	JO YUNKYUNG KIM IN KIM YEONG SU KO SUNGGWI MIN SEUNGJUN MOON JUNGJIN PARK NA-RAE	SAMSUNG SDI CO LTD	JP2016042454A JP6585906B2	2014-08-13	H01M10/0566 H01M10/058 H01M2/16	H01M10/052 (US) H01M10/0525 (EP,CN,US) H01M10/058 (EP,CN,US) H01M10/0587 (US) H01M2/145 (EP,CN,US) H01M2/16 (CN) H01M2/1646 (EP,US)	2016-03-31 2019-10-02	2016-02-17	054105601

						H01M2/1653 (EP,US) H01M2/168 (EP,US) H01M2/1686 (EP,US) H01M2/166 (EP,US) Y02T10/70 (EP,US)			
--	--	--	--	--	--	--	--	--	--

454. BATTERY UNIT AND BATTERY MODULE USING THE SAME

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
BATTERY UNIT AND BATTERY MODULE USING THE SAME	KIM YONG-SAM MINAMI SOSUKE SONG JANGHYUN	SAMSUNG SDI CO LTD	JP2014203825A JP6377382B2	2013-04-08	H01M2/10 H01M2/20 H01M2/30 H01M2/34 H01M2/06	H01M2/024 (EP,CN,KR,US) H01M2/0473 (KR) H01M2/06 (EP,CN,KR,US) H01M2/1077 (EP,CN,KR,US) H01M2/202 (EP,CN,US) H01M2/204 (KR) H01M2/206 (EP,CN,KR,US) H01M2/263 (EP,CN,KR,US) H01M2/30 (US) H01M2/305 (EP,CN,KR,US) H01M2/08 (EP,CN,US) H01M2/20 (US) H01M2/204 (EP,CN,US) H01M2/22 (US)	2014-10-27 2018-08-22	2014-10-09	049680932

455. RECHARGEABLE BATTERY

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
RECHARGEABLE BATTERY	KWAK YUN-JUNG LEE CHI-YOUNG LIU XIRUN OH JEONG-WON	SAMSUNG SDI CO LTD	JP2015023026A JP6491428B2	2013-07-18	H01M10/613 H01M10/625 H01M10/647 H01M10/651 H01M10/6554 H01M2/26	H01M2/22 (EP,CN,US) H01M2/26 (CN,US)	2015-02-02 2019-03-27	2015-01-21	050023483

456. FLEXIBLE SECONDARY BATTERY

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
FLEXIBLE SECONDARY BATTERY	SOHN JU-HEE SONG HYUN- HWA SUH JUN- WON YI JEONG- DOO	SAMSUNG SDI CO LTD	JP2015109260A JP6508902B2	2013-12-03	H01M10/04 H01M10/0585 H01M2/02 H01M2/14 H01M2/26	H01M10/04 (CN) H01M10/0436 (EP,US) H01M10/0463 (EP,US) H01M10/0468 (US) H01M2/1016 (CN) H01M10/0525 (EP,US) H01M10/0585 (EP,US) H01M2/168 (EP,US)	2015-06-11 2019-05-08	2015-06-03	051987078

						H01M2220/30 (US)			
457. SECONDARY BATTERY									
Title SECONDARY BATTERY	Inventors KWAK SEUNG-HO LEE HUI-JUN	Applicants SAMSUNG SDI CO LTD	Publication number JP2015008115A JP6218553B2	Earliest priority 2013-06-25	IPC H01M2/26 H01M2/34	CPC H01M10/0431 (KR) H01M2/0217 (KR) H01M2/1241 (EP,CN,KR,US) H01M2/1252 (EP,CN,KR,US) H01M2/263 (KR) H01M2/34 (EP,CN,US) H01M2/348 (KR) H01M2/0217 (EP,CN,US) H01M2200/103 (EP,CN,KR,US)	Publication date 2015-01-15 2017-10-25	Earliest publication 2014-12-25	Family number 050289584
458. SECONDARY BATTERY									
Title SECONDARY BATTERY	Inventors SEONG JAE-IL	Applicants SAMSUNG SDI CO LTD	Publication number JP2015115318A JP6526403B2	Earliest priority 2013-12-12	IPC H01M2/02	CPC B32B15/08 (EP,US) B32B15/20 (EP,US) B32B7/12 (EP,US) H01M2/0202 (EP,US) H01M2/024 (US) H01M2/0267 (EP,US) H01M2/30 (US) B32B2457/10 (EP,US) H01M2/0287 (EP,US) H01M2002/0205 (EP,US)	Publication date 2015-06-22 2019-06-05	Earliest publication 2015-06-17	Family number 052003629
459. BATTERY MANAGEMENT SYSTEM AND DRIVING METHOD THEREOF									
Title BATTERY MANAGEMENT SYSTEM AND DRIVING METHOD THEREOF	Inventors CHO YOUNG- SHIN LEE SOO- JIN SHIM YOUNG- WOO	Applicants SAMSUNG SDI CO LTD	Publication number JP2014211427A JP6622448B2	Earliest priority 2013-04-18	IPC G01R31/36 H01M10/48 H02J7/00	CPC G01R31/3842 (EP,US) G01R31/389 (EP) G01R31/3647 (EP) G01R31/3648 (EP)	Publication date 2014-11-13 2019-12-18	Earliest publication 2014-10-22	Family number 050486863
460. BATTERY SYSTEM, AND BATTERY COUPLING METHOD									
Title BATTERY SYSTEM, AND BATTERY COUPLING METHOD	Inventors HUANG YIJING	Applicants SAMSUNG SDI CO LTD	Publication number JP2015109796A JP6678387B2	Earliest priority 2013-12-03	IPC H02J3/38 H02J7/02 H02J7/35	CPC H01M10/4207 (EP,CN,KR,US) H01M10/425 (EP,CN,KR,US) H02J7/00 (KR) H02J7/0014 (EP,KR,US) H02J7/007 (KR) H01M2010/4271 (EP,CN,KR,US) H02J3/381	Publication date 2015-06-11 2020-04-08	Earliest publication 2015-06-04	Family number 051982429

						(EP,US) H02J7/007 (EP,US) H02J7/35 (EP,US) Y02P90/50 (EP,US)			
461. Vacuum fluorescent display device having wire grid									
Title Vacuum fluorescent display device having wire grid	Inventors LEE CHEOL HO [kr]	Applicants SAMSUNG SDI CO LTD [kr]	Publication number KR20010068429A	Earliest priority 2000-01-05	IPC H01J31/15 H01J31/15	CPC	Publication date 2001-07-23	Earliest publication 2001-07-23	Family number 019636520
462. Organic electrolytes and lithium secondary batteries using the same									
Title Organic electrolytes and lithium secondary batteries using the same	Inventors CHO HEON GU [kr]	Applicants SAMSUNG SDI CO LTD [kr]	Publication number KR20010095828A	Earliest priority 2000-04-12	IPC H01M10/40 H01M10/0525 H01M10/0567	CPC H01M10/052 (EP) H01M10/0567 (EP)	Publication date 2001-11-07	Earliest publication 2001-11-07	Family number 019663823
463. DIRECT CURRENT DRIVING TYPE VACUUM FLUORESCENT DISPLAY(VFD)									
Title DIRECT CURRENT DRIVING TYPE VACUUM FLUORESCENT DISPLAY(VFD)	Inventors JUNG SEONG U [kr]	Applicants SAMSUNG SDI CO LTD [kr]	Publication number KR100315233B1 KR20010038239A	Earliest priority 1999-10-22	IPC H01J31/15 H01J31/15	CPC	Publication date 2001-05-15 2001-11-26	Earliest publication 2001-05-15	Family number 019616580
464. Liquid crystal display of polyimide layer									
Title Liquid crystal display of polyimide layer	Inventors JUN IN SU [kr]	Applicants SAMSUNG SDI CO LTD [kr]	Publication number KR20010097772A	Earliest priority 2000-04-26	IPC G02F1/1337 G02F1/1337	CPC G02F1/133707 (KR) G02F1/133711 (KR)	Publication date 2001-11-08	Earliest publication 2001-11-08	Family number 019666985
465. DRIVER FOR LIQUID CRYSTAL ON SILICON									
Title DRIVER FOR LIQUID CRYSTAL ON SILICON	Inventors KIM MIN SEOK [kr]	Applicants SAMSUNG SDI CO LTD [kr]	Publication number KR20010097833A	Earliest priority 2000-04-26	IPC G02F1/133 G02F1/133	CPC	Publication date 2001-11-08	Earliest publication 2001-11-08	Family number 019667061
466. Color filter of Reflective Color LCD and making method the same									
Title Color filter of Reflective Color LCD and making method the same	Inventors KIM SEON HUI [kr]	Applicants SAMSUNG SDI CO LTD [kr]	Publication number KR20010097934A	Earliest priority 2000-04-27	IPC G02F1/1335 G02F1/1335	CPC	Publication date 2001-11-08	Earliest publication 2001-11-08	Family number 019667224
467. - Getter for bi-potential mask type cathode ray tube									
Title - Getter for bi-potential mask type cathode ray tube	Inventors CHO SEONG GEUN [kr] HWANG YONG SIK [kr]	Applicants SAMSUNG SDI CO LTD [kr]	Publication number KR20020009752A	Earliest priority 2000-07-26	IPC H01J29/06 H01J29/06	CPC	Publication date 2002-02-02	Earliest publication 2002-02-02	Family number 019680138
468. Electron gun for CPT									
Title Electron gun for CPT	Inventors BAE MIN CHEOL [kr] OH TAE SIK [kr]	Applicants SAMSUNG SDI CO LTD [kr]	Publication number KR100768172B1 KR20020012031A	Earliest priority 2000-08-05	IPC H01J29/48 H01J29/48	CPC	Publication date 2002-02-15 2007-10-17	Earliest publication 2002-02-15	Family number 019681894
469. Vacuum evaporation mask of EL display device and vacuum evaporation method and apparatus utilizing the same									
Title Vacuum evaporation mask of EL display device and vacuum evaporation method and apparatus utilizing the same	Inventors INABARI TZUO [jp]	Applicants SAMSUNG SDI CO LTD [kr]	Publication number KR100741052B1 KR20020030135A	Earliest priority 2000-10-16	IPC H01L31/12 H01L33/00 H05B33/10 H01L31/12 H05B33/10 H01L33/00	CPC H01L51/56 (EP)	Publication date 2002-04-24 2007-07-19	Earliest publication 2002-04-24	Family number 019693654

470. MASK ASSEMBLY FOR CATHODE RAY TUBE									
Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
MASK ASSEMBLY FOR CATHODE RAY TUBE	IN JUN GYO [kr] PARK JUN SEOK [kr]	SAMSUNG SDI CO LTD [kr]	KR20020028531A	2000-10-10	H01J29/07 H01J29/07		2002-04-17	2002-04-17	019692803
471. Projection type display device using liquid crystal device									
Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
Projection type display device using liquid crystal device	PARK JUN CHAN [kr]	SAMSUNG SDI CO LTD [kr]	KR20020021898A	2000-09-18	G02F1/1335 G02F1/1335		2002-03-23	2002-03-23	019689096
472. - Bi-potential mask type cathode ray tube									
Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
- Bi-potential mask type cathode ray tube	HWANG YONG SIK [kr]	SAMSUNG SDI CO LTD [kr]	KR20020029812A	2000-10-14	H01J29/06 H01J29/06		2002-04-20	2002-04-20	019693528
473. MASK ASSEMBLY FOR CATHODE RAY TUBE									
Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
MASK ASSEMBLY FOR CATHODE RAY TUBE	IN JUN GYO [kr] PYUN DO HUN [kr]	SAMSUNG SDI CO LTD [kr]	KR100728202B1 KR20020028532A	2000-10-10	H01J29/07 H01J29/07	H01J29/073 (EP) H01J2229/0711 (EP)	2002-04-17 2007-06-13	2002-04-17	019692804
474. Manufacturing method for pigment-attached phosphor									
Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
Manufacturing method for pigment-attached phosphor	JUNG IL HYEOK [kr] KIM YONG SEON [kr]	SAMSUNG SDI CO LTD [kr]	KR20020020307A	2000-09-08	C09K11/06 C09K11/06	C09K11/025 (KR) H01J29/20 (KR) C09K11/588 (KR) C09K11/7789 (KR) Y02B20/181 (KR)	2002-03-15	2002-03-15	019688175
475. DEFLECTION YOKE									
Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
DEFLECTION YOKE	PARK HO-YOUNG [kr]	SAMSUNG SDI CO LTD [kr]	KR200142903Y1	1992-11-24	H01J29/70 H01J29/70		1999-06-01	1999-06-01	019344612
476. METHOD FOR MANUFACTURING FIELD EMITTER OF FED									
Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
METHOD FOR MANUFACTURING FIELD EMITTER OF FED	CHOE GWI SEOK [kr] KIM CHANG UK [kr] KIM JAE MYEONG [kr] LEE SANG JIN [kr]	SAMSUNG SDI CO LTD	KR20000020871A	1998-09-24	H01J17/48 H01J17/48		2000-04-15	2000-04-15	019551779
477. CHARGING APPARATUS OF SECONDARY BATTERY									
Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
CHARGING APPARATUS OF SECONDARY BATTERY	KIM YUN GU [kr]	SAMSUNG SDI CO LTD	KR20000026084A	1998-10-17	H02J7/00 H02J7/00		2000-05-06	2000-05-06	019554353
478. A EXPOSING METHOD OF CRT									
Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
A EXPOSING METHOD OF CRT	JEONG BYEONG-HWA [kr]	SAMSUNG SDI CO LTD [kr]	KR100263856B1 KR19990075349A	1998-03-19	H01J9/20 H01J9/20		1999-10-15 2000-08-16	1999-10-15	019535092
479. REFLECTIVE LIQUID CRYSTAL DISPLAY AND PROJECTION SYSTEM HAVING THE DISPLAY									
Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
REFLECTIVE LIQUID CRYSTAL DISPLAY AND PROJECTION SYSTEM HAVING THE DISPLAY	KANG SEUNG GON [kr]	SAMSUNG SDI CO LTD [kr]	KR100804688B1 KR20030062886A	2002-01-21	G02F1/13 G02F1/13 G02F1/139	G02F1/1396 (EP) G02F1/136277 (EP) G02F2001/1398 (EP) G02F2202/40	2003-07-28 2008-02-18	2003-07-24	019718674

						(EP) G02F2203/02 (EP)			
480. BATTERY PACK									
Title BATTERY PACK	Inventors MOON DAE-YON [kr] WON HEE-YOUNG [kr]	Applicants SAMSUNG SDI CO LTD [kr]	Publication number US10320035B2 US2015093603A1	Earliest priority 2013-09-30	IPC H01M10/63 H01M10/42 H01M10/48 H01M2/02 H01M10/44 H01M2/06	CPC H01M10/4257 (EP,US) H01M10/486 (EP,US) H01M2/021 (EP,US) H01M10/443 (EP,US) H01M2/06 (EP,US) H01M2200/10 (EP,US) H01M2220/30 (EP,US)	Publication date 2015-04-02 2019-06-11	Earliest publication 2015-04-01	Family number 051628051
481. FLEXIBLE ELECTRODE ASSEMBLY, AND RECHARGEABLE BATTERY									
Title FLEXIBLE ELECTRODE ASSEMBLY, AND RECHARGEABLE BATTERY	Inventors KIM BONG YOUNG [kr]	Applicants SAMSUNG SDI CO LTD [kr]	Publication number KR102041590B1 KR20140142978A	Earliest priority 2013-06-05	IPC H01M10/05 H01M10/0583	CPC H01M10/0431 (EP) H01M10/0445 (EP) H01M10/045 (EP) H01M2/24 (EP) H01M2/0242 (EP)	Publication date 2014-12-15 2019-11-06	Earliest publication 2014-12-11	Family number 052005720
482. BATTERY PACK									
Title BATTERY PACK	Inventors CHO MAN SIK [kr] LEE SO RA [kr]	Applicants SAMSUNG SDI CO LTD [kr]	Publication number KR101999404B1 KR20140096611A	Earliest priority 2013-01-28	IPC H01M2/10 H01M2/20 H01M2/26	CPC H01M2/0202 (EP,US) H01M2/1022 (EP,US) H01M2010/4271 (EP,US)	Publication date 2014-08-06 2019-09-27	Earliest publication 2014-07-31	Family number 051223250
483. Mold for Food									
Title Mold for Food	Inventors KIM JAE KYUNG [kr] LEE YOUNG BAE [kr]	Applicants SAMSUNG SDI CO LTD [kr]	Publication number US2015060639A1	Earliest priority 2013-09-05	IPC B29C33/38	CPC A23G1/226 (EP) A23G3/0273 (EP) A23P30/10 (EP)	Publication date 2015-03-05	Earliest publication 2015-03-05	Family number 051483270
484. Dryer for electrode substrate of rechargeable battery and controlling method and system of the same									
Title Dryer for electrode substrate of rechargeable battery and controlling method and system of the same	Inventors AN SEON-HYEOK HEO KYOUNG- HEON KIM GI- SUNG PARK JI- HYANG SONG KWAN-SEOP	Applicants SAMSUNG SDI CO LTD	Publication number CN103934178A CN103934178B	Earliest priority 2013-01-23	IPC B05C13/02 B05D3/02	CPC F26B13/08 (EP,KR,US) F26B13/12 (EP,KR,US) H01M4/0409 (EP,US) H01M4/0435 (KR) H01M4/0471 (KR) H01M4/0435 (EP,US) Y10T29/49112 (EP,US)	Publication date 2014-07-23 2019-02-15	Earliest publication 2014-07-23	Family number 051182203
485. COMPOSITE SHEET, METHOD FOR MANUFACTURING SAME, AND DISPLAY DEVICE INCLUDING SAME									
Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number

COMPOSITE SHEET, METHOD FOR MANUFACTURING SAME, AND DISPLAY DEVICE INCLUDING SAME	CHO JAE CHEOL [kr] JEONG EUN HWAN [kr] KIM SUNG KOOK [kr] LEE WOO JIN [kr]	SAMSUNG SDI CO LTD [kr]	US10046538B2 US2016114555A1	2013-07-26	B32B27/12 B32B27/30 B32B3/26 B32B37/12 B32B37/14 B32B5/02 D06M15/693 D06M101/00	B32B27/12 (EP,US) B32B27/308 (EP,US) B32B3/263 (US) B32B37/12 (US) B32B37/14 (US) B32B5/02 (EP,US) D06M15/693 (US) B32B2260/021 (EP,US) B32B2260/046 (EP,US) B32B2260/048 (EP,US) B32B2262/101 (EP,US) B32B2307/306 (EP,US) B32B2307/414 (EP,US) B32B2307/418 (US) B32B2307/54 (EP,US) B32B2307/546 (US) B32B2383/00 (EP,US) B32B2457/20 (EP,US) B32B2457/202 (EP,US) D06M2101/00 (US)	2016-04-28 2018-08-14	2015-01-29	052393482
---	--	----------------------------	--------------------------------	------------	--	--	--------------------------	------------	-----------

486. Lithium rechargeable battery and lithium rechargeable battery pack

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
Lithium rechargeable battery and lithium rechargeable battery pack	CHANG YOUNG-CHUL [kr] CHUNG HYUN-JEI [kr] JUNG CHEOL-SOO [kr] SHIMIZU RYUICHI [jp] YAMAGUCHI TAKITARO [jp]	SAMSUNG SDI CO LTD [kr]	US2006035144A1 US7776475B2	2004-08-03	H01M4/66 H01M10/0525 H01M10/0565 H01M10/0567 H01M10/36 H01M4/58 H01M10/0569	H01M10/0525 (EP) H01M10/0565 (EP) H01M10/0567 (EP) H01M10/0567 (EP) H01M10/0569 (EP) H01M4/38 (EP)	2006-02-16 2010-08-17	2006-02-16	035800347

487. Fuel cell stack

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
Fuel cell stack	LEE SANG-WON [kr]	SAMSUNG SDI CO LTD [kr]	EP1635415A1	2004-09-08	H01M8/24	H01M8/0234 (EP) H01M8/0256 (EP) H01M8/0258 (US) H01M8/0273 (US) H01M8/0276 (EP) H01M8/2405 (EP) H01M8/241 (US) H01M8/0206 (EP) H01M8/0221 (EP)	2006-03-15	2006-03-09	036159331

488. Heat dissipator for display apparatus and plasma display apparatus including the heat dissipator

Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
Heat dissipator for display apparatus and plasma	KI-JUNG BAE SUNG-WON KIM [kr]	SAMSUNG SDI CO LTD [kr]	CN1809264A	2005-01-22	G09F9/00 G09F9/313	H05K7/20963 (EP) H01J2217/49 (EP) H01L2924/0002	2006-07-26	2006-07-26	036696059

display apparatus including the heat dissipator					G12B15/00 H05K7/20	(EP) H01L2924/0002, H01L2924/00, ADD (EP)			
489. Display device									
Title Display device	Inventors GI-YOUNG HATANAKA HIDEKAZU SON [kr]	Applicants SAMSUNG SDI CO LTD [kr]	Publication number CN1790596A	Earliest priority 2004-12-18	IPC G09F9/313 H01J11/12 H01J11/16 H01J11/22 H01J11/24 H01J11/26 H01J11/28 H01J11/32 H01J11/34 H01J11/36 H01J11/42 H01J11/50 H01J65/00	CPC G09G3/294 (EP) G09G3/2983 (EP) H01J11/12 (EP) H01J17/066 (EP) H01J17/492 (EP) H01J2217/49207 (EP)	Publication date 2006-06-21	Earliest publication 2006-06-21	Family number 036594796
490. MANUFACTURING METHOD OF ELECTROCATALYST FOR CATION EXCHANGE MEMBRANE FUEL CELL									
Title MANUFACTURING METHOD OF ELECTROCATALYST FOR CATION EXCHANGE MEMBRANE FUEL CELL	Inventors CHO KENRO YI BAOLIAN YOO DUCK-YOUNG ZHANG HUAMIN	Applicants SAMSUNG SDI CO LTD	Publication number JP2006253147A	Earliest priority 2005-03-09	IPC H01M4/88 H01M4/90 H01M4/92 H01M8/10	CPC B01J23/40 (EP) B01J23/462 (EP) B01J23/56 (EP) B01J23/8906 (EP) B01J23/8913 (EP) B01J37/0203 (EP) B01J37/18 (EP) B82Y30/00 (EP) H01M4/921 (EP) H01M4/926 (EP) B01J21/18 (EP) B01J21/185 (EP) B01J37/0201 (EP) H01M2008/1095 (EP)	Publication date 2006-09-21	Earliest publication 2006-09-21	Family number 037093351
491. PLASMA DISPLAY DEVICE AND DRIVING METHOD OF PLASMA DISPLAY PANEL									
Title PLASMA DISPLAY DEVICE AND DRIVING METHOD OF PLASMA DISPLAY PANEL	Inventors KIM SANG CHUL [kr]	Applicants SAMSUNG SDI CO LTD [kr]	Publication number KR100578978B1 KR20060001728A	Earliest priority 2004-06-30	IPC G09G3/291 G09G3/296 H01J11/24	CPC G09G3/2927 (KR) G09G3/294 (KR) G09G3/2965 (KR) G09G2300/0426 (KR) G09G2310/0213 (KR) G09G2310/066 (KR) G09G2320/0228 (KR)	Publication date 2006-01-06 2006-05-12	Earliest publication 2006-01-06	Family number 037104824
492. PLASMA DISPLAY APPARATUS									
Title PLASMA DISPLAY APPARATUS	Inventors KIM DO WAN [kr]	Applicants SAMSUNG SDI CO LTD [kr]	Publication number KR100627287B1 KR20060001539A	Earliest priority 2004-06-30	IPC G09F9/313 H01J11/10 H01J17/16 H04N5/645	CPC	Publication date 2006-01-06 2006-09-25	Earliest publication 2006-01-06	Family number 037104669
493. PLASMA DISPLAY DEVICE									
Title PLASMA DISPLAY DEVICE	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number

	JANG TAE WOONG [kr]	SAMSUNG SDI CO LTD [kr]	KR100627290B1 KR20060001542A	2004-06-30	H01J11/10 H01J17/16 H04N5/645		2006-01-06 2006-09-25	2006-01-06	037104671
494. ORGANIC ELECTRO LUMINESCENCE DISPLAY DEVICE AND FABRICATING METHOD OF THE SAME									
Title ORGANIC ELECTRO LUMINESCENCE DISPLAY DEVICE AND FABRICATING METHOD OF THE SAME	Inventors KWAK WON KYU [kr] PARK MOON HEE [kr] SEO CHANG SU [kr]	Applicants SAMSUNG SDI CO LTD [kr]	Publication number KR100611655B1 KR20060000850A	Earliest priority 2004-06-29	IPC H05B33/00 H05B33/10	CPC	Publication date 2006-01-06 2006-08-10	Earliest publication 2006-01-06	Family number 037104080
495. A THIN FILM TRANSISTOR STRUCTURE AND A FLAT PANEL DISPLAY WITH THE SAME									
Title A THIN FILM TRANSISTOR STRUCTURE AND A FLAT PANEL DISPLAY WITH THE SAME	Inventors KIM EUN AH [kr] LEE JEONG NO [kr] LEE SU MI [kr]	Applicants SAMSUNG SDI CO LTD [kr]	Publication number KR100563068B1 KR20060001345A	Earliest priority 2004-06-30	IPC H01L29/786	CPC G02F1/136204 (KR) G02F1/136286 (KR) H01L27/0248 (KR) H01L27/124 (KR) H01L27/3276 (KR)	Publication date 2006-01-06 2006-03-24	Earliest publication 2006-01-06	Family number 037104507
496. TRANSMISSION TYPE PLASMA DISPLAY PANEL									
Title TRANSMISSION TYPE PLASMA DISPLAY PANEL	Inventors HATANAKA HIDEKAZU [jp] JANG SANG HUN [kr] KIM YOUNG MO [kr] SON SEUNG HYUN [kr]	Applicants SAMSUNG SDI CO LTD [kr]	Publication number KR100592281B1 KR20060001407A	Earliest priority 2004-06-30	IPC H01J11/36 H01J11/54 H01J17/49	CPC	Publication date 2006-01-06 2006-06-21	Earliest publication 2006-01-06	Family number 037104559
497. PLASMA DISPLAY PANEL									
Title PLASMA DISPLAY PANEL	Inventors KANG KYOUNG DOO [kr]	Applicants SAMSUNG SDI CO LTD [kr]	Publication number KR20060001384A	Earliest priority 2004-06-30	IPC H01J11/38	CPC	Publication date 2006-01-06	Earliest publication 2006-01-06	Family number 037104540
498. ELECTROLUMINESCENCE DISPLAY DEVICE									
Title ELECTROLUMINESCENCE DISPLAY DEVICE	Inventors KANG TAE WOOK [kr] KIM MYUNG SUP [kr] LEE WON PIL [kr]	Applicants SAMSUNG SDI CO LTD [kr]	Publication number KR100708647B1 KR20060001348A	Earliest priority 2004-06-30	IPC H05B33/26	CPC	Publication date 2006-01-06 2007-04-18	Earliest publication 2006-01-06	Family number 037104510
499. LIGHT EMITTING DISPLAY, LIGHT EMITTING PANEL AND DATA DRIVER THEREOF									
Title LIGHT EMITTING DISPLAY, LIGHT EMITTING PANEL AND DATA DRIVER THEREOF	Inventors KIM YANG WAN [kr]	Applicants SAMSUNG SDI CO LTD [kr]	Publication number KR100649247B1 KR20060001531A	Earliest priority 2004-06-30	IPC G09G3/30	CPC G09G3/006 (KR) G09G3/3225 (KR) G09G2310/0286 (KR) G09G2310/0291 (KR) G09G2310/0297 (KR)	Publication date 2006-01-06 2006-11-24	Earliest publication 2006-01-06	Family number 037104665
500. PLASMA DISPLAY PANEL									
Title PLASMA DISPLAY PANEL	Inventors HUR MIN [kr] SHIN HYE A WEON [kr]	Applicants SAMSUNG SDI CO LTD [kr]	Publication number KR100590087B1 KR20060001547A	Earliest priority 2004-06-30	IPC H01J11/24 H01J11/26 H01J11/38 H01J11/40	CPC	Publication date 2006-01-06 2006-06-14	Earliest publication 2006-01-06	Family number 037104676

