

FP:("Panasonic Energy")

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## ANALYSIS

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Countries	Applicants	Inventors	IPC code	Publication Dates
China 53	PANASONIC ENERGY [WUXI] CO LTD 52 PANASONIC ENERGY TAIWAN CO LTD 1	SONG LIANZHONG 8	H01M 46	2014 1
		XI HONGMEI 7	B65D 5	2015 2
		ZHANG JIAN 7	B65G 4	2016 4
		ZHANG LIMIN 6	B08B 2	2017 11
		MORIKAWA KEIMOTO 5	C01B 1	2018 10
		NIE QIUGEN 4	G09F 1	2019 7
		SHEN BIN 4	H01C 1	2020 6
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Machine translation

1. [106992320](#) BATTERY WITH NON-AQUEOUS ELECTROLYTE

CN - 28.07.2017

Int.Class [H01M 10/0587](#) Appl.No 201610038666.5 Applicant PANASONIC ENERGY (WUXI) CO., LTD. Inventor SEN CHUANJINGYUAN

The invention provides a battery with a non-aqueous electrolyte. The battery with the non-aqueous electrolyte comprises an electrode group, a battery shell and the electrolyte, wherein the electrode group comprises a lower end surface arranged to face the bottom surface of the battery shell, an upper end surface located at the side of the opening part of the battery shell and a side surface located between the lower end surface and the upper end surface; and on the upper end surface, a positive wire is connected with a positive plate and a negative wire is connected with a negative plate. The battery is characterized in that an upper insulated rubber tape is adhered onto the upper end surface; the upper insulated rubber tape at least covers the part, surrounding the positive wire, of the upper end surface and the part, surrounding the negative wire, of the upper end surface; the upper insulated rubber tape extends and is adhered onto the side surface of the electrode group; a peripheral insulated rubber tape is adhered onto the side surface of the electrode group; and the peripheral insulated rubber tape covers the part, located on the side surface of the electrode group, of the upper insulated rubber tape. The battery with the non-aqueous electrolyte in the invention can reduce the phenomenon of short circuits in the battery, so the security of the battery is improved.

2. [204391187](#) INSULATING PLATE FOR BATTERY AND BATTERY WITH INSULATING PLATE

CN - 10.06.2015

Int.Class [H01M 2/34](#) Appl.No 201520045989.8 Applicant PANASONIC ENERGY (WUXI) CO., LTD. Inventor MORIKAWA KEIMOTO

The utility model provides an insulating plate for a battery and the battery with the insulating plate. The insulating plate [4] for the battery covers the end, close to the opening part of a battery shell [1], of an eddy-like electrode plate set [3] stored in the battery shell [1]. The insulating plate [4] for the battery is characterized by comprising a center covering part [6], at least one through hole [5] and a low-strength part [7], wherein the center covering part [6] is formed in the center of the insulating plate for the battery and covers the center of the eddy-like electrode plate set [3], the through holes [5] are formed between the peripheral edge of the insulating plate [4] for the battery and the center covering part [6] and penetrate through the insulating plate [4] for the battery, a lead [11] of the electrode plate set [3] penetrates through one of the through holes [5], the low-strength part [7] is formed in the periphery of the center covering part [6] and connected with the center covering part [6], and the breaking strength of the low-strength part [7] is smaller than that of other portions of the insulating plate [4] for the battery.

3. [204333097](#) BATTERY INSULATING PLATE, LITHIUM ION BATTERY COMPRISING SAME AND BATTERY PACK

CN - 13.05.2015

Int.Class [H01M 2/34](#) Appl.No 201520046867.0 Applicant PANASONIC ENERGY (WUXI) CO., LTD. Inventor MORIKAWA KEIMOTO

The utility model provides a battery insulating plate with a short circuit prevention function and capability of guaranteeing battery safety, a lithium ion battery comprising the battery insulating plate and a battery pack. The battery insulating plate is arranged at one end, close to the open side of a battery shell, of an electrode set [4] accommodated in the battery shell [5]. The electrode set [5] is formed by winding a positive plate, a negative plate and a diaphragm between the positive plate and the negative plate in an alternate manner. The battery insulating plate is characterized by comprising a first

insulating plate [1] and a second insulating plate [2] arranged between the first insulating plate [1] and one end of the electrode set [4], wherein the first insulating plate [1] comprises open portions [8], and the second insulating plate [2] is made of meltable resin with the melting point lower than that of the first insulating plate [1].

4. **107565079** INSULATING PROTECTION PLATE AND SECONDARY BATTERY ADOPTING SAME

CN - 09.01.2018

Int.Class H01M 2/14 Appl.No 2016110831966.9 Applicant PANASONIC ENERGY (WUXI) CO., LTD. Inventor HUA QIAN

The invention provides an insulating protection plate and a secondary battery adopting the same. The insulating protection plate is horizontally placed in a battery shell of the secondary battery and positioned between an electrode plate group and a sealing plate; a strip-shaped opening for allowing an electrode lead of the electrode plate group to pass through and an electrolyte guiding hole for allowing an electrolyte to flow through are formed in the surface; a side wall which is erected towards the direction of the sealing plate is arranged on the peripheral edge of the insulating protection plate; and the insulating protection plate is characterized in that at least one part of the side wall adopts an inner-outer dual-layer structure, wherein the outer layer wall is lower than the inner layer wall. According to the insulating protection plate provided by the invention, a phenomenon of generating welding holes and welding focuses in laser welding of the sealing plate of the secondary battery can be avoided, thereby improving safety of the battery, improving welding quality and obtaining the finished product of the battery with the attractive appearance.

5. **106654082** BATTERY EQUIPPED WITH LARGE-PORE-DIAMETER INSULATING RING

CN - 10.05.2017

Int.Class H01M 2/06 Appl.No 102015000726221 Applicant PANASONIC ENERGY (WUXI) CO., LTD. Inventor XI HONGMEI

The invention relates to a battery equipped with a large-pore-diameter insulating ring. The battery is provided with a bare battery, the large-pore-diameter insulating ring for covering a sealing plate of the bare battery, and a thermal shrinkage sleeve for coating the bare battery and the insulating ring; the battery is characterized in that the insulating ring adopts a stereoscopic structure; the insulating ring is provided with a main plane and a side wall, wherein the main plane adopts a planar annular shape and is equipped with a run-through hole in the center, and the main plane covers the sealing plate of the bare battery; the pore diameter of the run-through hole is larger than the diameter of an electrode terminal on the sealing plate; and the side wall is formed by perpendicular downward extension from the external peripheral edge or internal peripheral edge of the main plane. According to the battery equipped with the large-pore-diameter insulating ring, dislocation or falling off of the large-pore-diameter insulating ring during being assembled to the bare battery or in a subsequent thermal shrinkage sleeve process can be effectively prevented, thereby ensuring the safety of the battery.

6. **206059480** BATTERY PACK

CN - 29.03.2017

Int.Class H01M 2/10 Appl.No 201621072718.2 Applicant PANASONIC ENERGY (WUXI) CO., LTD. Inventor SONG LIANZHONG

The utility model provides a battery pack, has a plurality of naked batteries, accommodates a plurality of insulating nature sleeve pipe of naked battery, each terminal surface of insulating nature sheathed tube is equipped with the confession naked battery male opening exposes the negative pole end of naked battery, another terminal surface is equipped with and only makes the highlights of the positive terminal of naked battery outstanding and the opening that other parts of the positive terminal of naked battery were covered is at each on the insulating nature sheathed tube outer peripheral face, along with the parallel direction in axle center of naked battery forms a plurality of first connecting portion and a plurality of second connecting portion respectively, through one insulating nature sheathed tube is one first connecting portion and another insulating nature sheathed tube is one the second connecting portion are connected, each insulating nature sleeve pipe is coupled to together, constitutes from this battery pack.

7. **206099419** A MULTIFUNCTIONAL CHARGER

CN - 12.04.2017

Int.Class H02J 7/00 Appl.No 202016001063085 Applicant PANASONIC ENERGY (WUXI) CO., LTD. Inventor ZHANG QIN

The utility model provides a multifunctional charger, it not only can charge to rechargeable battery through the alternating current, moreover, even under the emergency such as open air that do not have alternating current power supply, also can charge through solar cell panel or USB interface to still has charged state battery indicator function. A multifunctional charger (1) possesses: charger shell (2), its last casing (3) and lower casing (4) that include mutual block, battery mounting slot (5), it sets up opening (6) in last casing (3) to a plurality of anodal shell fragment (7) and negative pole shell fragment (8) that have relative setting, solar cell panel (9), its cover in the back of charger shell (2), and charged state battery indicator window form (12), its dispose in on going up casing (3), can be based on the process of charging with level indication charged state / the battery residual capacity more than three.

8. **105870394** BATTERY INSULATING PLATE, BATTERY COMPRISING SAME AND BATTERY PACK

CN - 17.08.2016

Int.Class H01M 2/34 Appl.No 201510033784.2 Applicant Panasonic Energy (Wuxi) Co., Ltd. Inventor Morikawa Keimoto

The invention provides a battery insulating plate with a short circuit prevention function and capability of guaranteeing battery safety, and a lithium ion battery comprising the battery insulating plate and a battery pack. The battery insulating plate is arranged at one end, close to the open side of a battery shell, of an electrode set (4) accommodated in a battery shell (5). The electrode set (5) is formed by winding a positive plate, a negative plate and a diaphragm between the positive plate and the negative plate in an alternate manner. The battery insulating plate is characterized by comprising a first insulating plate (1) and a second insulating plate (2) arranged between the first insulating plate (1) and one end of the electrode set (4), wherein the first insulating plate (1) comprises open portions (8), and the second insulating plate (2) is made of meltable resin with the melting point lower than that of the first insulating plate (1).

9. **103545478** ELECTROLYTE FILLING SYSTEM AND ELECTROLYTE FILLING METHOD

CN - 29.01.2014

Int.Class H01M 2/36 Appl.No 201210253645.7 Applicant Panasonic Energy (Wuxi) Co., Ltd. Inventor Cheng Jianfeng

The invention discloses an electrolyte filling system and an electrolyte filling method. The electrolyte filling system comprises an electrolyte container, a primary liquid storage tank, a secondary liquid storage tank, a filling nozzle, a circulating pump and a filling pump, wherein the electrolyte container is used for storing electrolyte and outputting the electrolyte through pressurization of a pressurizing unit; the primary liquid storage tank is connected with the electrolyte container by a pipeline, and stores the electrolyte supplied by the electrolyte container; the secondary liquid storage tank is connected with the primary liquid storage tank by the pipeline and stores the electrolyte supplied by the primary liquid storage tank; the filling nozzle is connected with the secondary liquid storage tank by the pipeline and used for filling the electrolyte in the secondary liquid storage tank into a battery enclosure; the circulating pump is arranged on the pipeline between the primary liquid storage tank and the secondary liquid storage tank, and used for supplying the electrolyte in the primary liquid storage tank to the secondary liquid storage tank; the filling pump is arranged on the pipeline between the secondary liquid storage tank and the filling nozzle and used for supplying the electrolyte in the second liquid storage tank to the filling nozzle; the electrolyte filling system further comprises a circulating tube for enabling gas and electrolyte escaped from the secondary liquid storage tank to flow to the primary liquid storage tank.

10. **206271817** BATTERY PACK

CN - 20.06.2017

Int.Class H01M 6/50 Appl.No 202016001060027 Applicant PANASONIC ENERGY (WUXI) CO., LTD. Inventor QIN MINGZHI

The utility model provides an it is provided with hot sensing material layer battery pack on the surface, the look that changes is issued in the temperature more than 50 DEG C in hot sensing material layer. According to the utility model discloses a battery pack can detect easily and take place the battery pack that the short circuit is generated heat to can foreknow in advance dangerous, the security that has improved battery pack greatly.

