

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	SONG LIANZHONG 8	H01M 46	2014 1
		XI HONGMEI 7	B65D 5	2015 2
	PANASONIC ENERGY TAIWAN CO LTD 1	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. **101789500** BATTERY LEAD WIRE, BATTERY SEAL PLATE AND BATTERY

CN - 28.07.2010

Int.Class [H01M 2/22](#) Appl.No 200910009617.9 Applicant Panasonic Energy (Wuxi) Co., Ltd. Inventor Zhao Yuhua

The invention aims at providing a battery lead wire, a battery seal plate and a battery provided with the battery lead wire and the battery seal plate. Convex points are arranged between the battery seal plate and the battery lead wire, which enables an air vent in the battery seal plate to always keep unclogged and improves the safety of the battery. One surface of the battery lead wire is provided with at least one convex point, and the convex point is used as a spacer for preventing at least one part of the edge of the air vent of the battery seal plate from contacting the surface of the battery lead wire when the battery lead wire is attached to the battery seal plate. The battery seal plate is provided with the air vent and is used for sealing the open part of a shell, at least one convex point is arranged on the outside of the edge of the air vent of the battery seal plate towards the inner portion of the battery, and the convex point is used as a spacer for preventing at least one part of the edge of the air vent of the battery seal plate from contacting the surface of the battery lead wire when the battery lead wire is attached to the battery seal plate.

2. **207651632** NICKEL -HYDROGEN BATTERY PACKAGE

CN - 24.07.2018

Int.Class [H01M 10/613](#) Appl.No 201721639336.8 Applicant PANASONIC ENERGY (WUXI) CO., LTD. Inventor ZHANG JIAN

The utility model provides a nickel -hydrogen battery package, its two group batteries and metallic heating panel that includes baffle, series connection or parallel connection, a serial communicationport, the group battery is formed by single battery arrangement of capable, the n of m row, goes the n ni -mh monocell end to end ground series connection in every line in the direction, is listed asin the direction single A series of cells or the parallel connection s of the capable monocell of m in end and adjacent lines, two group batteries with the side of monocell with the mode branch of baffle contact is arranged in the both sides of baffle, the heating panel with the mode of the side of monocell contact set up in the group battery with one side that the baffle is opposite. According to the utility model discloses a battery package, the heat that is favorable to reducing in the battery package is stored up, and furthest has satisfied the security requirement of battery package.

3. **206098521** INTEGRATION BATTERY SEPARATOR STRUCTURE AND USE ITS RECTANGULAR CELL PACKAGE

CN - 12.04.2017

Int.Class [H01M 2/18](#) Appl.No 202016001063038 Applicant PANASONIC ENERGY (WUXI) CO., LTD. Inventor HU DAN

The utility model provides an integration battery separator structure and use its rectangular cell package, the characterized in that of integration battery separator structure, including roof, bottom plate and 1 piece at least central baffle, central baffle stands on between the roof and bottom plate that the level placed vertically, be provided with negative pole more than two hole of stepping down on the roof, the periphery of bottom plate is provided with vertical ascending baffle, the roof central baffle with it is regional that the bottom plate encloses the battery receiving that can hold bare cell more than two sections jointly, works as when holding the bare cell who has more than two sections in the integration battery separator structure, adjacent bare cell quilt central baffle separates, bare cell's battery case bottom embedding the periphery of bottom plate in the baffle, bare cell's the negative terminal who seals on the board follows on the roof the negative pole is stepped down and is exposed in the hole.



4. **215045498** BATTERY BLISTER PACKAGING BODY CN - 07.12.2021

Int.Class B65D 85/88 Appl.No 202121509730.6 Applicant PANASONIC ENERGY (WUXI) CO., LTD. Inventor ZHANG JIAN

The utility model relates to a battery blister packaging body, and aims to provide a battery blister packaging body which is high in strength and reliability, can prevent a child from taking out a battery and mistakenly eating the battery, and is sequentially provided with a blister bubble shell, a plastic film and a paper card from top to bottom, the blister blister is provided with a flat bottom and an accommodating part which protrudes upwards from the plane of the bottom and is used for accommodating a battery, and the blister blister is characterized in that the plastic film is of a composite structure at least comprising an upper layer and a lower layer, the lower layer is jointed with the surface of the paper card through an adhesive, and the upper layer and the lower layer are bonded together through the adhesive. The upper layer and the bottom of the blister blister are directly fused through high-frequency welding.

5. **208828426** BATTERY PACKAGE CN - 07.05.2019

Int.Class B65D 75/34 Appl.No 201821418297.3 Applicant PANASONIC ENERGY (WUXI) CO., LTD. Inventor SONG LIANZHONG

The utility model aims to provide a battery packaging body. The device comprises a battery and a paper card, characterized in that it is characterized in that it comprises:, wherein a plurality of cutting lines are arranged on the paper card in parallel, a plurality of paper grooves are formed between adjacent cutting lines, the battery is inserted into the plurality of paper grooves in a manner that the axial direction of the battery is perpendicular to the cutting lines, and the adjacent paper grooves are positioned on the opposite side of the battery in a staggered manner through deformation to hold the side surface of the battery so as to form a battery accommodating part.

6. **209023458** A MODULAR BATTERY CELL AND BATTERY PACKAGE CN - 25.06.2019

Int.Class B65D 75/04 Appl.No 201721638643.4 Applicant PANASONIC ENERGY (WUXI) CO., LTD. Inventor XI HONGMEI

The utility model relates to a battery unit [10]. The battery unit comprises a plurality of batteries [1] of which the positive electrodes and the negative electrodes are respectively aligned and arranged side by side, and a film [3] that integrally covers the plurality of batteries [1]. The utility model also relates to a battery packaging body which is provided with a packaging shell and one or more battery units assembled in the packaging shell. The packaging case is preferably a blister case, and the battery cell is preferably a modular battery cell in which two or four batteries are integrally heat-shrunk and packaged with a heat-shrunk film. Therefore, the structures of the blister shell and other packaging shells can be unified into two types of packaging shells for assembling the modular battery unit with two batteries and the modular battery unit with four batteries, the cost can be reduced, the efficiency can be improved, the packaging is easy, and the packaged batteries are not easy to rotate under the action of external force.

7. **101640256** INSULATED ISOLATION BODY FOR BATTERY, INSULATED ISOLATION STRUCTURE AND BATTERY USING SAME CN - 03.02.2010

Int.Class H01M 2/04 Appl.No 200910009615.X Applicant Panasonic Energy (Wuxi) Co., Ltd. Inventor Hang Daojin

The invention relates to an insulated isolation body [A] for a battery, which is characterized in that the insulated isolation body [A] comprises a substrate [1] and a convex plate [2] arranged on the upper surface of the substrate [1], wherein the center of the substrate [1] is provided with an open pore; the center of the convex plate [2] is provided with a communicating pore [C] which is coaxial with the open pore. The invention also relates to an insulated isolation structure for the battery and the battery; the insulated isolation structure for the battery comprises a battery shell body and an electrode terminal, which is characterized in that the electrode terminal is provided with the insulated isolation body for the battery, wherein the convex plate of the insulated isolation body faces to the interior of the battery; the inner lateral face of the convex plate is contacted with the outer lateral wall of the electrode terminal; and the substrate of the insulated isolation body is contacted with the shoulder part of the battery shell body. The insulated isolation structure for the battery not only can prevent short circuit of the electrode terminal and the battery shell body, but also can isolate corrosion caused by external moisture, gas and the like entering the battery.

8. **112582679** BATTERY MANUFACTURING APPARATUS AND BATTERY MANUFACTURING METHOD USING SAME CN - 30.03.2021

Int.Class H01M 10/058 Appl.No 201910938052.6 Applicant PANASONIC ENERGY (WUXI) CO., LTD. Inventor CAI MINHONG

The invention provides a battery manufacturing apparatus and a battery manufacturing method using the same. This battery manufacturing device is provided with at least the following: a plate group manufacturing means that constitutes a plate group by a positive plate and a negative plate with a separator interposed therebetween; a case insertion unit that inserts the electrode plate group into a battery case having an opening at one end; a lead welding unit which is used for connecting the leads of the polar plate group to the sealing plate through welding; a liquid injection unit which is used for injecting electrolyte into the battery case; and a sealing unit which is used for sealing the battery case by using the sealing plate. The device is characterized in that more than one dust collection unit is further arranged on the upstream side of the production line of the liquid injection unit and the sealing unit and is used for collecting and removing foreign matters in the battery case. With the battery manufacturing apparatus and the battery manufacturing method of the present invention, it is possible to provide a battery in which fine foreign matter inside the battery is greatly reduced and which has excellent safety.

9. **106653257** PTC DEVICE USED FOR BATTERY PACK AND BATTERY PACK PROVIDED WITH SAME CN - 10.05.2017

Int.Class H01C 7/02 Appl.No 201510729226.X Applicant PANASONIC ENERGY (WUXI) CO., LTD. Inventor GONG ZHIRU

The invention provides a PTC device and a battery pack, wherein the PTC device comprises a PTC layer, an upper electrode layer formed on the upper surface of the PTC layer, and a lower electrode layer formed on the lower surface of the PTC layer; the upper electrode layer is electrically connected with a terminal of one battery in the battery pack, the lower electrode layer is electrically connected with a terminal of another battery in the battery pack, windows are respectively formed on the PTC layer and the upper electrode layer, the lower electrode layer is exposed towards one side of the upper electrode layer through the window of the PTC layer and the window of the upper electrode layer, and an integrally formed electrode lug is formed on the upper electrode layer, extends to the outer side from the edge of the main body of the upper electrode layer, and is used for being electrically connected with the terminal of one battery.

10. **206059536** GROUP BATTERY THAT POSSESSES PCBA DEVICE CN - 29.03.2017

Int.Class H01M 10/04 Appl.No 201621072781.6 Applicant PANASONIC ENERGY (WUXI) CO., LTD. Inventor CHEN ZHIXIA

The utility model provides a group battery that possesses PCBA device, it possesses: two at least batteries and the PCBA device of connection between two batteries, its characterized in that draw forth positive wire, negative pole lead wire and signal lead wire on the PCBA device through spot welding the positive wire negative pole lead wire with set up insulated paper between two adjacent lead wires in the signal lead wire respectively, insulated paper covers positive wire, negative pole lead wire and signal lead wire are in solder joint on the PCBA device.

