

# Lithium battery patent certificate

Who has a patent on solid-state batteries?

Toyo Kohan's patent on solid-state batteries is co-filed with Toyota and is related to a sulfide all-solid-state battery. Nippon Denko's patents on solid-state batteries are related to a garnet lithium ion-conductive oxide material with high ionic conductivity.

What is a lithium ion battery recycling system?

One or more embodiments of the present disclosure relate to a system for recovering and recycling metals from spent lithium ion batteries (LIB) including a vessel for contacting battery waste product that may include metals and/or metal alloys with a deep eutectic solvent.

What is a lithium-ion battery?

A lithium-ion battery is a type of rechargeable battery. It includes a positive electrode with a positive current collector, a first active material, and a second active material. The battery also includes a negative electrode with a negative current collector and a third active material, where the third active material is a lithium titanate material.

How to re-lithiate a lithium depleted battery cathode active material?

In another aspect, a method of re-lithiated a lithium depleted battery cathode active material includes heating the combination to greater than or equal to about 100 degrees Celsius and to less than a sintering temperature of the combination for a time period of greater than or equal to one hour.

Does KnowMade patent solid-state Li-ion batteries?

That is why KnowMade is monitoring patenting activity on solid-state Li-ion batteries to complete its two recent reports on solid electrolytes for Li-ion batteries and solid-state Li-ion batteries with inorganic solid electrolytes.

Who makes pure lithium batteries?

Pure Lithium, established in 2019, commercializes lithium metal negative electrodes. Its patents on solid-state batteries are related to lithium deposition and batteries using inorganic molten salts. Auto Motive Power is an American energy management company founded in 2017, which provides charging and battery management systems.

Certificat de batterie lithium-ion d'enregistrement professionnel et rapide, qui est une priorité absolue pour CMB batterie personnalisée. ACCUEIL PACKS DE BATTERIES PERSONNALISÉS

Under this scheme, electronic products, either imported or produced domestically, need to comply with the BIS standards. The conformity of the product will be issued after the examination and analysis of the samples

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In 2022, more than 320 new patent applicants entered the solid-state Li-ion battery-related patent landscape, with three-quarters filing only one patent family (i.e., unique invention). Most of these IP newcomers are Chinese companies and R& D labs, with less than 30% of them publishing more than one patent family that year.

Secondary cells and batteries containing alkaline or other non-acid electrolytes - Safety requirements for secondary lithium cells and batteries, for use in industrial applications 26650 IEC 62619 Certification PDF Available Upon Request

A lithium-ion battery includes a positive electrode including a positive current collector, a first active material, and a second active material. The battery also includes a negative...

Patent filings at the European Patent Office (EPO) for solid state batteries have been growing on average by 25% per year since 2010. 6 In 2018, they represented more than 8% of all patent filings in lithium-ion technology, compared with 3% in 2010. 7 In CPC class H01M10/0562 8 alone, the number of patent families filed in the US and Europe has nearly ...

Electric vehicle (EV) technology innovators are leading the race to find high performance battery materials. Here's a breakdown of current research and development efforts, and a look at how ...

Leoch mainly produces reserve power batteries, SLI batteries and motive power batteries and they include series products such as AGM VRLA batteries, VRLA-GEL battery, pure lead batteries, lead carbon battery, UPS high rate batteries, marine batteries, railway batteries, start-stop batteries, automotive batteries, motorcycle batteries, lithium battery, li-on battery, tubular ...

Hydrometallurgical recycling processes will separate/isolate battery constituents first before processing. This recycling process is also applicable to Ni-MH batteries. For lithium ...

6 ???&#0183; Preview of the "Solid-state / Semi-solid Li-ion Battery Innovation & Patent Review", including sections on commercially relevant patents, benchmarking and identification of product launch risk factors.

The number of patent filings in 2022 for battery recycling focused on lithium was almost 200% higher than for nickel, cobalt or copper, intellectual property law firm ...

An improved lithium-ion or lithium-polymer battery that is capacity-fade resistant. The battery includes an anode comprised of graphite where density of the graphite is in a range from 1.2 to 1.5 g/c<sup>3</sup>; and the battery further has a cathode that is comprised of LiNiO<sub>2</sub> present at a density in a range from 3.0 to 3.3 g/c<sup>3</sup>. The battery also includes an electrolyte and a separator between ...

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Inbuilt Battery UPS/ESS; Solar Hybrid PCU MPPT; Home & Commercial UPS. Pure Sine Wave UPS LED; Pure Sine Wave UPS With ATC Series LCD; Pure Sine Wave UPS With ATC Series LED; Heavy Duty UPS (IGBT Based Technology) 1P-1P; 3P ...

Recycling of lithium-ion batteries provides a means to lower the total lifetime energy consumption, battery material demand, and decreases the manufacturing cost.

Utility Model Patent Certificate or Utility Model Patent Certificate Authorization Letter. News. More. Lithium-ion batteries: Cutting-edge research in safety and applications . 2023-06-14. In recent years, with the popularity of electronic products, the demand for lithium-ion batteries with high safety is increasing, which has attracted great attention from the industry. Lithium-ion battery ...

A process for extracting, recovering and recycling metals and materials from spent lithium ion batteries (LIB) that comprises the contacting battery waste products with a deep eutectic solvent, and leaching the metal from the battery waste product and extracting the metal into the deep eutectic solvent with heat and agitation. After the leaching and extracting, the ...

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