

Lithium battery patent in my country



Overview

Despite the Covid-19 crisis, patenting activity on solid-state Li-ion batteries continued to grow in 2022, strongly driven by important patent applications in China filed by not only Chinese patent a. 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 inve. Several non-Chinese startups incorporated after 2016 entered the solid-state Li-ion battery patent landscape in 2022, mainly originating from South Korea and the U.S. Even though most Japanese companies had started filing patents on solid-state batteries many years earlier, some of them only joined the IP landscape in 2022, such as material manu. Several South Korean material manufacturers entered the patent landscape in 2022 (i.e., their first solid-state battery-related patent was published in 2022). Kolon Ind.



Article Content

Lithium Battery Manufacturer ATL Won Injunction Against Its

COSMX may face the choice of settling with its Chinese rival ATL or withdrawing from the German market, given its loss in two invalidation challenges against the disputed patent. On March 19, lithium battery manufacturer COSMX announced that the Munich District Court in Germany had issued an injunction against the company in response to a ...

Prospects for Lithium Battery Patent Applications in China

In 2022, China released the "14th Five Year Plan" for the development and implementation of new energy storage, which involves lithium battery technology in solid-state lithium-ion...

Why doesn't Duracell make lithium batteries? : r/batteries

Lithium iron disulfide primary cells, or lithium ion rechargeable cells? They don't sell 1.5V nominal lithium primary cells in the US because of 2 reasons; Energizer holds so many patents that to fight them would be cost prohibitive, and because the 1.5V lithium iron disulfide market is so small that it's not worth trying to get into it.

Lithium-ion Batteries In Canada: IP Considerations

Canada and Lithium-ion Battery Supply Chain. In 2022, Canada made significant progress in the global lithium-ion battery supply chain, climbing from fifth to the impressive second position in BloombergNEF's annual report. This achievement is attributed to the country's abundant reserves of raw materials and active mining efforts. The report ...

Newcomers to the Solid-State Li-Ion Battery Patent ...

Several non-Chinese startups incorporated after 2016 entered the solid-state Li-ion battery patent landscape in 2022, mainly originating from South Korea and the U.S. Main non-Chinese startups entering the solid-state ...

Lithium-ion batteries recycling process

Materials used for the manufacturing of lithium-ion batteries, such as lithium and cobalt, are projected to be at risk in the near future and alternative source of those materials must be used to insure an affordable cost for lithium-ion batteries. Recycling is also necessary to obtain a positive environmental impact for the use of electric car, as the raw materials exploitation of the ...

Hybrid lithium-ion battery-capacitor (h-libc) energy storage ...

patent Summary Hybrid lithium-ion battery-capacitor (h-libc) energy storage devices. Patent. US-2022277903-A1 . Inventor. CAO WANJUN BEN (US) YAN JIN (US) CHEN XUJIE (US) ZHENG JIAN-PING (US) SHELLIKERI ANNADANESH (US) View More... Assignee. UNIV FLORIDA STATE RES FOUND (US) GENERAL CAPACITOR LLC (US) Country. United States . Dates. ...

Distributed by Patent Landscape Analysis NMC Lithium-Ion ...

Currently, more than 4,000 patents have been granted, mainly in Japan and China, and more than 3,600 patent applications are pending, mainly in the USA and China. More than 590 ...

China Leads Global Battery Patent Race For Post-lithium-ion Era

China ranked first in battery patents in the post-lithium-ion era, accounting for more than half of the world's total, according to statistics over the past decade published by Nikkei Asia. Nikkei commissioned the Mitsui & Co. Global Strategic Studies Institute for an analysis using the patent analysis tool from LexisNexis. According to the analysis, there were 9,862 global ...

NMC Lithium-ion Batteries Patent Landscape 2017

NMC Lithium-ion Batteries – Patent Landscape Analysis | July 2017 | Ref. : KM17008
TABLE OF CONTENTS INTRODUCTION 4 Introduction to Lithium-ion batteries Scope of the report Key features of the report Objectives of the reports METHODOLOGY 18 Patent search, selection and analysis Search equations Terminologies for patent analysis

Global Trends in Battery Technology: A Patent Perspective

As the drive towards renewable energy use gains pace, there has been an increase in global patent filings relating to battery technology. While lithium-ion batteries currently dominate the battery ...

The intellectual property enabling gigafactory battery cell ...

The results show that China surpassed Japan in total patent count in 2018 and has now become the technology leader across the whole battery production value chain. The findings also ...

BlackRock Unveils Lithium and Battery Producers ETF in Europe

BlackRock has expanded its transition metal offering with a lithium and battery producers ETF, according to ETF Stream.. The iShares Lithium & Battery Producers UCITS ETF (LITM) is listed on ...

Research on the Technological Development of Lithium Ion Battery ...

Research on the Technological Development of Lithium Ion Battery Industry in China. Chen Shen 1 and Huaiguo Wang 1. Published under licence by IOP Publishing Ltd Journal of Physics: Conference Series, Volume 1347, XV International Russian-Chinese Symposium "NEW MATERIALS AND TECHNOLOGIES" 16-19 October 2019, Sochi, Russian Federation ...

Battery innovation and the Circular Economy: What are patents ...

Four battery technologies (redox-flow, solid-state, sodium-ion, and lithium-sulfur batteries) display increased patenting dynamics from 2000-2009 to 2010-2019, a pattern that ...

Distributed by Patent Landscape Analysis NMC Lithium-Ion Batteries

NMC Lithium-Ion Batteries Patent Landscape Analysis -July 2017 Lithium Nickel-Manganese-Cobalt (NMC) Oxides have become a key material for a wide range of battery applications -but who has the best IP position? REPORT OUTLINE •NMC Lithium-ion Batteries: Patent Landscape Analysis •July 2017 •PDF with >180 slides •Excel file detailing >8,980 patents •€5,990 for a ...

Patent Landscape Report Lithium Ion Battery

Li-ion battery patent landscape is dominated over by commercial companies compared to universities and research institutes. Out of the top 20 patent owners in the Li-ion battery patent space, companies occupy 100 percent of the share ...

Chinese Lithium Battery Startup Carku Secures Three ...

NOCO, an American multinational corporation founded in 1914, designs and creates consumer battery chargers, jump starters, and batteries, as well as a wide range of accessories. Disputes between the two sides date back to January 2021, when NOCO first accused Carku and several other companies of patent infringement with the US ITC.

NMC Lithium-Ion Batteries Patent Landscape 2017

For this report, we investigated the global patent landscape of NMC Lithium-ion Batteries including precursor, material, electrode and battery manufacturing issues, and all types of NMC materials, whether unmodified, modified, core ...

US20070087265A1

A lithium battery includes a casing having at least one reacting trough in which at least one electrode device is installed and the at least one electrode device includes a first electrode having a lithium compound that contains ionizable lithium ions and a first electric conductor. A second electrode includes at least including a layer material containing carbon or metal alloys, and a ...

Grid-connected lithium-ion battery energy storage system towards ...

According to the United States national blueprint for lithium batteries , ... and needs of the respective country, Moreover, the focus on patents can be varied due to various weather condition as well. In this section, a comparative analysis of patent documents in the top five technology fields that were published in the last 5 years under different jurisdictions is ...

Top 10 Lithium-Ion Battery Manufacturers In The World

Lithium batteries are becoming more important as the world moves toward electrification and the need for energy storage increases. Because of this, the demand for lithium batteries is growing very fast, and companies are quickly expanding their operations worldwide. In 2022, the global production capacity of lithium-ion batteries was over 2,000 GWh. This number ...

Strategic IP Considerations of Batteries and Energy Storage Solutions

Figure 1: Battery Patent Filings: CPC Class H01M H01M: PROCESSES OR MEANS, e.g. BATTERIES, FOR THE DIRECT CONVERSION OF CHEMICAL ENERGY INTO ELECTRICAL ENERGY Source: Juristat as of 8/17/21. The lithium-ion battery, introduced commercially in 1991, revolutionized the consumer electronics industry.

Solidion Develops a Lithium Battery that can be Charged in 5 ...

Solidion Technology (STI) has developed and patented a breakthrough battery technology enabling 5-minute charging for lithium batteries. The innovation uses a graphene-based heat spreader system that efficiently manages battery temperature during charging and operation, addressing key challenges in EV adoption. The system alternates between heating ...

Lithium secondary battery

US-5686138-A chemical patent summary. Provided is a novel lithium secondary battery including a positive electrode including a compound capable of occluding and discharging lithium, a negative electrode composed mainly of a carbon material which includes a graphite as an only or as a principal component, a separator between the positive electrode and the negative ...

Global Trends in Battery Technology: A Patent Perspective

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 ...

Breaking down batteries: current approaches and ...

Patents and battery recycling. Baum et al 1 recently analysed the publications (academic and patents) in the lithium-ion battery recycling field and noted that the number of patent publications has increased from around 30 in 2010 to more than 500 in 2020. Further, the vast majority of patents were to Chinese applicants.

a) Patent activity of different countries analyzed for Li ...

The aim of this article is to analyze trends in patenting that might result in innovations for three energy technologies: thermochemical conversion of biomass (Bioenergy), lithium-ion battery...

Lithium ion battery

patent Summary Lithium ion battery. Patent. US-9525174-B2. Inventor. WANG LI (CN) He xiang-ming (CN) LI JIAN-JUN (CN) GAO JIAN (CN) Assignee. UNIV TSINGHUA (CN) HON HAI PREC IND CO LTD (TW) Country. United States . Dates. Priority: 2012/12/27. Grant: 2016/12/20. Description. This web page summarizes information in PubChem about patent US ...

Prospects for Lithium Battery Patent Applications in China

From the published patent applications, there are nearly 1,900 patent applications for solid-state lithium-ion batteries; Since 2020, there have been over 1,000 patent applications for solid-state ...

China leads global battery patent race for post-lithium-ion era

OSAKA -- China is increasing its presence in the race to develop replacements for the lithium-ion battery, a Nikkei analysis shows. A country-by-country tally of patents related to post-lithium ...

Solid-state lithium-ion battery news: who are the IP newcomers?

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 ...

Tracing the technological development trajectory in post-lithium ...

The battery systems, which are designed to be the successor to today's lithium-ion battery technology and have the potential to meet the requirements of energy-intensive products, are referred to as post-lithium-ion batteries (Choi and Aurbach, 2016). Several post-lithium-ion batteries are already under development and are subject to intensive academic ...

r/batteries on Reddit: Why is there no other AA ...

Energizer lithiums have existed for decades so the base patents must have expired years ago. I know there were some similar batteries on the market a few years back (in fact I have a few of them) but they were discontinued after some ...

Status of the Battery Patents

Status of the Battery Patents -2017 Patenting Activity | April 2018 | Ref.: KM18004
SCOPE OF THE REPORT Battery technologies Commercialized batteries Lithium
batteries (lithium-ion, primary lithium batteries) BATTERIES Ni-MH Lead-acid Zn-Air
Na-S Emerging batteries Lithium-Air Lithium-Sulfur Redox flow Na -ion Mg-ion Al Air Al-
ion Included in ...

Solidion Develops a Lithium Battery that can be Charged in 5 ...

Solidion is granted a key US patent on a Graphene-Enabled Battery Fast-Charging
and Cooling System DAYTON, Ohio, Oct. 30, 2024 (GLOBE NEWSWIRE) -- Solidion
Technology, Inc. (ticker "STI"), an ...

Battery Patents: Lithium Leaders and New ...

This data-file tabulates the number of patents filed into different types of batteries,
by year and by geography. Hence, we have identified the patent leaders in lithium
ion technology, based on 158,000 patents and the battery materials that they ...

Battery Research and Innovation—A Study of Patents and ...

In an ambitious patent study of three energy-related technologies, li-ion batteries,
hydrogen production and thermochemical conversion of biomass, the five largest ...

Halide Solid Electrolytes for Li-ion Batteries

A patent family is a set of patents filed in multiple countries to protect a single
invention by common inventor(s). A first application is made in one country – the
priority country – and is then extended to other countries. Inorganic
Inorganic/Polymer Polymer HALIDE SOLID ELECTROLYTE for Li-ion batteries and
Lithium metal batteries

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