

What are the top battery patent companies

Which patents are related to batteries?

There are patents related to various battery technologies such as Li-ion, Lead-acid, Ni-MH, Redox-flow, Na-ion, Mg-ion, Li-Air, and others. Patents also cover battery components like materials, electrodes, electrolytes, separators, battery cells, battery packs and systems, thermal management systems in batteries, and Battery Management Systems.

Which companies manufacture the best batteries?

Manufacturers of batteries include: ADS/Magnatek, Alpha Technologies, Ametek, APC, B.B. Battery, Best Power, C&D Technologies, Chloride CSB, Deka, Deltec, Douglas, EaglePicher, Eaton, Elgar, Eltek, and Valere.

Which company has the most patents for a solid-state battery?

Toyota announced its solid-state battery development efforts and holds the most patents. In 2015, Sakti3 was acquired by Dyson. In 2017, John Goodenough, the co-inventor of Li-ion batteries, unveiled a solid-state battery, using a glass electrolyte and an alkali-metal anode consisting of lithium, sodium or potassium.

Who owns the battery patents?

The lab and the U.S. government still hold the patents, because U.S. taxpayers paid for the research. In 2012, Yang applied to the Department of Energy for a license to manufacture and sell the batteries. The agency issued the license, and Yang launched UniEnergy Technologies. He hired engineers and researchers. But he soon ran into trouble.

Who makes the most EV batteries in the world?

China is the undisputed leader in battery manufacturing, dominating the global production of essential battery materials such as lithium, cobalt, and nickel. Chinese companies supply 80% of the world's battery cells and control nearly 60% of the EV battery market. 13. Amperex Technology Limited (ATL) 12. Envision AESC 11. Gotion High-tech 10.

Who owns the most patents in Li-ion battery technology?

Toyota Group holds the most extensive patent portfolio in Li-ion battery technology with 3,840 IP assets, within the past seven years.

A list of the top 25 applicants in battery tech for 2000-2018 includes six companies in Europe and two in the US. In Europe, companies in Germany are leading the way in electricity storage innovation, filing 5,080 ...

Volkswagen Group's battery company PowerCo and QuantumScape have entered into a groundbreaking agreement to industrialize QuantumScape's next-generation solid-state ...

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Patent Analysis Top R& D Technology Companies in 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 ...

It was introduced on the market in 1991. Even more patent applications for his work, a total of sixty, followed. Universities and companies rushed to profit from this innovative technology. They submitted their own ...

Murata Manufacturing is one of the top patent filers in solid-state batteries. The company has developed a new electrolyte for electric vehicles (EVs). The composite material, made of lithium salt ...

Over 40,000 engineers and technicians working on battery technology and new energy solutions; over 37,000 patent applications and around 25,000 owned patents Overview BYD has a rich history in the lithium-ion ...

Global sales of the top performance apparel, accessories, and footwear companies 2023; Nike's global revenue 2005-2024; Value of the secondhand apparel market worldwide from 2021 to 2028

The Lithium-ion battery top 100 is Discovery PatSnap" annual ranking of the top 100 Most Patent Filings Lithium-ion battery Key Players in the world. Discovery has identified the top key ...

From more than 600 startups, we picked the top 10 EV Battery Startups innovating in the different verticals of EV battery technology. Skip to content +1-202-455-5058 ... Last year, we ...

2 ???· The Sodium-ion Battery landscape is rapidly evolving as leading companies innovate to meet the growing demand for sustainable energy solutions. This development comes in response to the increasing need for alternatives to traditional Lithium-ion batteries. By 2033, the global Sodium-ion Battery market is projected to surge from \$438 million in 2024 to over \$2 billion, ...

Global top 10 lithium-ion battery patents by quantity and quality. The analysis further highlights that leading Korean companies like LG Chem and Samsung SDI have ...

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