Does the battery have any patented technology

How does patentsight measure the strength of BYD battery technology patents?
PatentSight groups patents into simple families,and each simple patent family is only assigned to a single cluster. The size of each technology cluster indicates its strength,measured by the Patent Asset Index. In the second level,we get insights into the BYD battery technology patents in the "Batteries" cluster.

Are alternative battery chemistries getting more patents?
Between 2012-2021,the number of patent families filed in CPC class H01M10/054,13which relates to alternative battery chemistries,has steadily increased. The trends follow those seen for redox flow and solid-state battery technology,with a steady growth in the number of patent families filed in this class.

How many e-cigarette patents does BYD have?
The "Electric Vehicle" cluster follows closely behind. It might be more interesting to others that BYD's portfolio includes around 104active patent families related to tobacco technology,particularly atomizers for e-cigarettes. Such unexpected insights are only revealed at this level of analysis.

How many patent families does BYD have?
It might be more interesting to others that BYD's portfolio includes around 104active patent families related to tobacco technology,particularly atomizers for e-cigarettes. Such unexpected insights are only revealed at this level of analysis. Numerous third--and fourth-level technology clusters exist within the "Batteries" cluster.

What makes BYD a differentiator in battery technology?
Fuel cell technologyemerges as a differentiator in the battery technology field compared with traditional automotive companies. BYD's strategic emphasis on innovation and IP strength underscores its role in the field. The company is a key player in the automotive industry's shift towards electrification and sustainability.

Are solid-state batteries a good idea?
Although the technology is still at an early stage of development,it promises to provide a more thermally stable,less flammable,simpler,and more durable class of batteries.5Given these anticipated advantages,solid-state batteries have considerable potential.

According to patents that have been recently granted to NIO related with its Battery Swap technology, the EV maker will make the replacements faster, increase the capacity at the facilities and increase its ...

The origins of the lithium-ion battery can be traced back to the 1960s, when researchers at Ford"s scientific lab were developing a sodium-sulfur battery for a potential electric car. The battery used a novel mechanism: while ...

Does the battery have any patented technology

A typical magnesium-air battery has an energy density of 6.8 kWh/kg and a theoretical operating voltage of 3.1 V. However, recent breakthroughs, such as the quasi-solid-state magnesium-ion battery, have ...

The EPO"s Patent Index 2023 highlights that the field of electrical machinery, apparatus and energy, which includes clean energy inventions, was the fastest growing technology field with new European ...

Discover the how, what & why of patents and IP with specific examples for chemistry, materials & battery technology companies. Ideal for SMEs & start-ups. People

Batteries have the potential to contribute significantly to a greener and more sustainable future, and so are a critical sector in the drive to net zero. What do the latest patent statistics reveal about innovation in the ...

Huawei is set to make a significant advancement in energy storage with its latest development in solid-state battery technology. The tech giant has recently unveiled a patent for a sulfide-based ...

These patents reflect BYD"s commitment to advancing battery technology, particularly in terms of safety, efficiency, and practical applications in electric vehicles. The ...

Elon Musk has made anti-patent statements, but they"re not necessarily borne out by what Tesla is actually doing. Tesla does file patent applications and it does get patents granted. It"s not always the community ...

In this article, Nathaniel interrogates Toyota"s patent portfolio in the hunt for the technical details behind the breakthrough and poses that the solution might lie in the formation of a clay-like solid electrolyte composition for ...

Invented by the French physician Gaston Planté in 1859, lead acid was the first rechargeable battery for commercial use. Despite its advanced age, the lead chemistry continues to be ...

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