

# Lithium battery intellectual property protection patent

Are lithium-ion batteries patentable?

Frequently, patent filings for lithium-ion batteries cover a novel component material (e.g., an electrolyte formulation) or novel combination of component materials (e.g., solid-state battery architecture).

What is a battery patent?

The claims in these types of patents typically list specific formulation requirements, including details about the individual components in their initial form (raw materials) or upon assembly of the battery (e.g., concentration of electrolyte salt).

Are batteries protected by patents?

At their core, batteries are energy-storage devices, including a positive electrode (a cathode), a negative electrode (an anode), an electrolyte, and a separator--all of which are covered by patents, trade secrets, and other forms of intellectual property.

How many patents are there in the battery industry?

Research and development in the battery industry have led to a notable increase in patent filings at the United States Patent and Trademark Office (USPTO), climbing from 3,773 in 2010 to 5,319 in 2019 (see Figure 1). But as more players enter the market and obtain patent protection for their innovations, IP disputes among competitors are heating up.

Should you consider battery technology before filing a patent?

Considering certain key technical elements of battery technologies before pursuing a claim -- or even before filing a patent -- can help prepare patent holders and their legal teams to assert ownership of an intellectual property asset efficiently and effectively when it matters most.

Why is IP protection important in the battery industry?

Protection of IP through patents and trade secrets is an important consideration in the battery industry, where market participants are constantly striving to improve battery performance and methods of manufacture. But patent holders must also beware of challenges from competitors and demands for interoperability from consumers.

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Global market complexity: The global nature of the lithium-ion battery market presents challenges in international IP protection. Canadian companies operating in multiple jurisdictions must navigate various IP laws and regulations to ensure their patents and trade secrets are adequately protected worldwide.

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and various forms of IP protection cover these different categories. For example, patents protect inventions, whereas copyrights protect written or recorded expressive content; ...

Chinese lithium-ion battery manufacturer Contemporary Amperex Technology Co., Limited (CATL) has filed a new lawsuit against its emerging rival China Aviation Lithium Battery (CALB), according to an announcement released last Friday by CALB. The lawsuit was filed at the Fuzhou Intermediate People's Court, alleging that CALB and its independent distributor have infringed ...

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2 ???&#0183; The number of total patent publications in International Patent Classification (IPC) Class H01M, relating to various types of batteries, has more than doubled in a decade, from about 68 000 in 2014 to over 160 000 in 2023. This highlights not only the rising spending on research and development and the increasing commercial value of protecting innovations by means of ...

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