



# Solid state battery patent holders

Who has the most patents on solid-state batteries?

Nikkei partnered with Tokyo research company Patent Result to pore over global patent applications related to solid-state batteries, and found that Toyota is the leader, with 1,331 known patents. Panasonic took second place with 445 patents, and another Japanese firm, Idemitsu Kosan, came in third with 272 patents.

Does Toyota have a solid-state battery patent?

Toyota's leaders speak against EVs in public, and the company actively lobbies against government support for electrification. Back in the labs, however, Toyota's engineers are researching cutting-edge EV technology. Believe it or not, Toyota is by far the leading holder of solid-state battery patents, according to a recent study by Nikkei.

Do I need a subscription to access solid-state battery patents?

A paid subscription is required for full access. This statistic shows the leading owners of solid-state battery patents in 2018 and the number of patent families published. Patents that only apply in China are not included, though.

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.

Are solid-state batteries the next big thing for EVs?

Solid-state batteries for EVs are still in the prototype stage, but they're widely expected to be the next big thing, thanks to their greater range, faster recharge times and reduced fire risk.

Are Toyota and Panasonic working together to develop solid-state technology?

That same year, Toyota and Panasonic established a joint venture, and the companies are working together to develop solid-state technology. Toyota says it plans to launch a hybrid vehicle with a solid-state battery by 2025. Nissan and Honda plan to release solid-state EVs in the latter half of the decade.

As Toyota races toward mass production of solid-state batteries, it's crucial to explore the factors driving this breakthrough. From patent filing trends to global R& D efforts, let's dive into the insights that reveal how Toyota ...

Emerging technology in detail: solid state batteries Solid-state batteries (SSBs) represent a significant advancement in battery technology, leveraging solid electrodes and a solid electrolyte instead of the liquid or polymer gel ...



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