



Toyota solid state battery patents

How many solid-state battery patents does Toyota have?

Toyota holds far more solid-state battery patents than other automakers. Over the past three years, Toyota registered over 8,000 solid-state battery patents. Many are assigned jointly with Idemitsu. Hyundai, Kia and Honda are actively researching solid-state battery innovation.

Does Toyota make solid-state batteries?

Toyota has been researching solid-state batteries since the 1990s, and its patents cover a wide ranging field that includes battery structure, material and manufacturing processes, according to the Nikkei. Toyota also has a joint-venture company with Panasonic to manufacture batteries, including solid-state designs.

Who has the most solid-state battery patents?

Toyota Motor is by far the leading holder of solid-state battery patents, a Nikkei study shows, demonstrating how Japanese companies have dominated the race to develop the next-generation power source for electric vehicles. Solid-state batteries do away with liquid electrolytes used in conventional lithium-ion batteries.

Will a Toyota eV have solid-state batteries?

Other partners include Honda and Nissan. Patents aren't necessarily a sign of impending production but Toyota has promised to launch a vehicle with solid-state batteries by the middle of the decade, albeit a hybrid and not a full-electric vehicle. Toyota in 2020 started testing solid-state batteries in a one-off EV based on the Concept-i from 2017.

Which company will put solid-state batteries in a production car?

Stephen Edelstein July 8, 2022 Comment Now! While it's unclear which company will win the race to put solid-state batteries in a production car, Toyota and research partner Panasonic currently have the lead in patents related to the technology, Nikkei Asia reported Thursday.

Are automakers investing in solid-state battery research?

Many other automakers and battery suppliers are also investing in solid-state battery research, lured by claims of greater energy density. Toyota began researching solid-state batteries in the 1990s, according to Nikkei. It partnered with Panasonic for joint development of the tech in 2019.

45 · A timeline of key events for this patent application, including priority claims, publications, legal status, reassignments, and litigation. Google has not performed a legal analysis and ...

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battery grants over the past three years, according to ...

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Toyota was the clear leader with 1,331 known patents, followed by Panasonic with 445 patents. In comparison, the third-place company--Idemitsu Kosan--holds 272 patents, according to the...

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 ...

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Toyota is ahead of everyone, including Panasonic, one of its battery partners. Toyota registered 1,331 solid-state battery-related patents, according to the study.

2 · Last September, Toyota announced plans for their improved lithium-ion batteries, as well as a "breakthrough" in solid-state battery technology. It's notable, because the company had been resisting its transition to electric ...

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Believe it or not, Toyota is by far the leading holder of solid-state battery patents, according to a recent study by Nikkei. Other Japanese companies are also among the top ...

Q2 2025 marked a significant period for solid-state battery technology, with over 1,510 new patent applications published. Leading patent applicants included industry giants ...

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Web: <https://www.economieopgaven.nl/contact-us/>

Email: energystorage2000@gmail.com

WhatsApp: 8613816583346

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