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Global Solid-State Batteries Patent Monitoring Service Market Size, Share, Trends Analysis, by Supply Chain Position (Electrolyte, Electrode, Cell, Pack, System), by Electrolyte Type (Polymer, Inorganic/Polymer, Inorganic), and Regional Forecasts 2022-2032

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Abstracts

The Global Solid-State Batteries Patent Monitoring Service Market is experiencing rapid advancements, providing stakeholders with comprehensive insights into technological trends, competitor strategies, and innovation landscapes. This market's growth is driven by the increasing adoption of solid-state battery technologies to address critical safety and efficiency challenges posed by conventional Li-ion batteries. By replacing flammable liquid electrolytes with solid counterparts, solid-state batteries offer a revolutionary solution for industries like automotive, consumer electronics, and energy storage.

The quarterly monitoring service empowers businesses to navigate the competitive landscape by tracking new patents, expired/abandoned patents, reassignments, and litigations. It offers valuable insights into supply chain innovations categorized by electrolyte types (e.g., Argyrodite, Thio-LISICON, Garnet, and NASICON) and enables tailored research based on patent assignee, claims, and technology focus.

With robust developments in solid-state battery applications, including electric vehicles (EVs) and hybrid electric vehicles (HEVs), key industry players like Toyota, Samsung, Murata, and Panasonic lead the charge in IP activities. Notably, innovations in inorganic electrolytes and breakthroughs in scalable production processes are reshaping the solid-state battery landscape.

The growing interest of EV manufacturers such as Volkswagen, BMW, and Renault-

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Nissan-Mitsubishi Alliance, combined with government-backed initiatives for clean energy solutions, has intensified patenting activities across the supply chain. With a quarterly analysis of IP trends and direct access to IP analysts, businesses can proactively strategize, mitigate risks, and capitalize on free technologies from expired patents.

Major Market Players

1. Toyota

2. Samsung

3. Murata/Sony

4. Panasonic/Sanyo

5. Enevate

6. Cosmx Battery

7. LG Chem

8. QuantumScape

9. CATL (Contemporary Amperex Technology Co., Ltd.)

10. Solid Power

11. SK Innovation

12. Bosch

13. ProLogium Technology

14. Ilika

15. BYD

The detailed segments and sub-segments of the market are explained below:

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By Supply Chain Position

- Electrolyte
- Electrode
- Cell
- Pack
- System

By Electrolyte Type

- Polymer
- Inorganic/Polymer
- Inorganic

By Inorganic Electrolyte Material

- Argyrodite
- Thio-LISICON
- Sulfide Glass Ceramic
- Oxide Glass Ceramic
- Perovskite
- Anti-perovskite
- LISICON

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Garnet

NASICON

By Region

North America

U.S.

Canada

Europe

UK

Germany

France

Italy

Spain

Asia Pacific

Japan

China

South Korea

India

Australia

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Latin America

- Brazil
- Mexico

MEA

- South Africa
- Saudi Arabia
- UAE

Years Considered for the Study:

- Historical Year: 2022
- Base Year: 2023
- Forecast Period: 2024–2032

Key Takeaways

- Gain insights into competitors' IP activities, including new patents, reassignments, and litigation.
- Detect and utilize expired patents to mitigate R&D risks and reduce costs.
- Evaluate technical trends by electrolyte types and supply chain positions.
- Optimize R&D strategies with AI-driven patent analysis and direct analyst interaction.

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