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SUGIYAMA et al.(10) **Pub. No.: US 2023/0231124 A1**(43) **Pub. Date: Jul. 20, 2023**(54) **POSITIVE ELECTRODE MATERIAL AND BATTERY****Publication Classification**(51) **Int. Cl.****H01M 4/485** (2010.01)**H01M 10/052** (2010.01)**H01M 10/0562** (2010.01)**H01M 4/02** (2006.01)(52) **U.S. Cl.****CPC** **H01M 4/485** (2013.01); **H01M 10/052**(2013.01); **H01M 10/0562** (2013.01); **H01M****2004/028** (2013.01)(71) Applicants: **Toyota Jidosha Kabushiki Kaisha**,
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ABSTRACT

Disclosed is a positive electrode material having inhibited increase in heat release when exposed to high temperature. The positive electrode material of the disclosure comprises a positive electrode active material, a first solid electrolyte and a second solid electrolyte, wherein the positive electrode active material comprises a lithium-containing oxide, the first solid electrolyte comprises Li and X as constituent elements and comprises no S, X is one or more elements selected from the group consisting of F, Cl, Br and I, the second solid electrolyte comprises Li and S as constituent elements, the first solid electrolyte covers at least part of the surface of the positive electrode active material, the second solid electrolyte contacts with the positive electrode active material across the first solid electrolyte, and the average covering thickness of the first solid electrolyte is 104 nm or greater.

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