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YABE et al.(10) **Pub. No.: US 2023/0231184 A1**(43) **Pub. Date: Jul. 20, 2023**(54) **SOLID ELECTROLYTE, SOLID  
ELECTROLYTE SOLUTION, AND METHOD  
OF MANUFACTURING SOLID  
ELECTROLYTE**(71) Applicants: **TOYOTA JIDOSHA KABUSHIKI  
KAISHA**, Toyota-shi (JP); **Panasonic  
Holdings Corporation**, Osaka (JP)(72) Inventors: **Hiroki YABE**, Osaka (JP); **Izuru  
SASAKI**, Kyoto-shi (JP); **Kenta  
NAGAMINE**, Osaka (JP)(73) Assignees: **TOYOTA JIDOSHA KABUSHIKI  
KAISHA**, Toyota-shi (JP); **Panasonic  
Holdings Corporation**, Osaka (JP)(21) Appl. No.: **17/989,049**(22) Filed: **Nov. 17, 2022**(30) **Foreign Application Priority Data**

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**ABSTRACT**

A solid electrolyte includes lithium, phosphorus, sulfur, and halogen, in which, when the solid electrolyte is measured by TG-MS, a first peak derived from cyclic sulfur appears in a temperature range of 170° C. or higher and lower than 250° C., a second peak derived from the cyclic sulfur appears in a temperature range of 250° C. or higher and lower than 300° C., and a peak intensity P1 of the first peak is higher than a peak intensity P2 of the second peak.

