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(71) Applicant(s):

TOYOTA JIDOSHA KABUSHIKI KAISHA [JP/JP]; 1, Toyota-cho, Toyota-shi, Aichi 4718571 (JP) (for all designated states)

(72) Inventor(s):

OSE, Norihiro; c/o TOYOTA JIDOSHA KABUSHIKI KAISHA, 1, Toyota-cho, Toyota-shi, Aichi 4718571 (JP)

HASEGAWA, Hajime; c/o TOYOTA JIDOSHA KABUSHIKI KAISHA, 1, Toyota-cho, Toyota-shi, Aichi 4718571 (JP)

OTAKI, Mitsutoshi; c/o TOYOTA JIDOSHA KABUSHIKI KAISHA, 1, Toyota-cho, Toyota-shi, Aichi 4718571 (JP)

KINTSU, Yusuke; c/o TOYOTA JIDOSHA KABUSHIKI KAISHA, 1, Toyota-cho, Toyota-shi, Aichi 4718571 (JP)

(74) Agent(s):

KISHIMOTO, Tatsuhito; c/o TOKYO CENTRAL PATENT FIRM, 3rd Floor, Oak Building Kyobashi, 16-10, Kyobashi 1-chome, Chuou-ku, Tokyo 1040031 (JP)

(54) Title (EN): ALL-SOLID LITHIUM ION SECONDARY BATTERY

(54) Title (FR): BATTERIE SECONDAIRE AU LITHIUM-ION ENTIÈREMENT SOLIDE

(54) Title (JA): 全固体リチウムイオン二次電池

(57) Abstract:

(EN): The purpose of the present disclosure is to provide an all-solid lithium ion secondary battery which is excellent in cycle characteristics and which has a negative electrode including, as a negative electrode active material, at least one selected from the group consisting of a metal capable of forming an alloy with Li, an oxide of said metal, and an alloy composed of said metal and Li. In this all-solid lithium ion secondary battery, the negative electrode contains a negative electrode active material, a conductive material, and a solid electrolyte, wherein the negative electrode active material includes at least one active material selected from the group consisting of a metal capable of forming an alloy with Li, an oxide of said metal, and an alloy composed of said metal and Li, and the solid electrolyte is particles having a BET specific surface area of 1.8-19.7 m²/g.

(FR): Le but de la présente invention est de fournir une batterie secondaire au lithium-ion entièrement solide qui présente d'excellentes caractéristiques de cycle et qui comporte une électrode négative comprenant, comme matériau actif d'électrode négative, au moins un matériau choisi dans le groupe consistant en un métal susceptible de former un alliage avec le lithium (Li), un oxyde dudit métal et un alliage composé dudit métal et de Li. Dans cette batterie secondaire au lithium-ion entièrement solide, l'électrode négative contient un matériau actif d'électrode négative, un matériau conducteur et un électrolyte solide, le matériau actif d'électrode négative comprenant au moins un matériau actif choisi dans le groupe consistant en un métal susceptible de former un alliage avec Li, un oxyde dudit métal et un alliage composé dudit métal et de Li, et l'électrolyte solide étant des particules ayant une zone de surface spécifique BET de 1,8 à 19,7 m²/g.

(JA): 本開示は、負極活物質としてLiと合金を形成可能な金属、当該金属の酸化物、及び、当該金属とLiとの合金からなる群より選ばれる少なくとも一つを含む負極を有し、サイクル特性が良好である全固体リチウムイオン二次電

池を提供することを目的とする。全固体リチウムイオン二次電池であって、負極は、負極活物質、導電材、及び、固体電解質を含有し、前記負極活物質は、Liと合金を形成可能な金属、当該金属の酸化物、及び、当該金属とLiとの合金からなる群より選ばれる少なくとも一種の活物質を含み、前記固体電解質は、BET比表面積が $1.8 \sim 19.7 \text{ m}^2 / \text{g}$ の粒子である全固体リチウムイオン二次電池。

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