Title (en)

SURFACE COATINGS FOR CERAMIC ELECTROLYTE PARTICLES

Title (de)

OBERFLÄCHEN BESCHICHTUNGEN FÜR KERAMIK ELEKTROLYT PARTIKEL

Title (fr)

REVÊTEMENTS DE SURFACE POUR PARTICULES D'ÉLECTROLYTE EN CÉRAMIQUE

Publication

EP 3685456 A1 20200729 (EN)

Application

EP 18853621 A 20180710

Priority

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- US 2018041528 W 20180710

Abstract (en)

[origin: WO2019050618A1] Core/shell ionically-conductive particles are disclosed. The core particles contain ceramic electrolyte materials, and the shells are electronically-conductive. The core/shell particles can be combined with organic electrolytes to form composite organic-ceramic electrolytes that can be used in lithium battery cells. Such composite organic-ceramic electrolytes have been found to have improved lithium transport properties when compared to similar composite electrolytes made with ceramic electrolyte particles that do not have electronically-conductive shells.

IPC 8 full level

H01M 4/62 (2006.01); **H01M 10/0525** (2010.01); **H01M 10/0565** (2010.01); **H01M 50/443** (2021.01); **H01M 50/497** (2021.01)

CPC (source: EP US)

H01M 10/052 (2013.01 - EP); **H01M 10/0525** (2013.01 - EP); **H01M 10/056** (2013.01 - EP); **H01M 50/443** (2021.01 - EP US); **H01M 50/497** (2021.01 - EP US); H01M 4/131 (2013.01 - EP); H01M 4/133 (2013.01 - EP); H01M 4/134 (2013.01 - EP); H01M 4/381 (2013.01 - EP); H01M 4/386 (2013.01 - EP); H01M 4/485 (2013.01 - EP); H01M 4/52 (2013.01 - EP); H01M 4/624 (2013.01 - EP); H01M 2300/0025 (2013.01 - EP); H01M 2300/0065 (2013.01 - EP); H01M 2300/0071 (2013.01 - EP); H01M 2300/0082 (2013.01 - EP); H01M 2300/0091 (2013.01 - EP); H01M 2300/0094 (2013.01 - EP); Y02E 60/10 (2013.01 - EP)

Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

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