

Title (en)
TREATED PARTICLES AND SUBSTRATES

Title (de)
BEHANDELTE PARTIKEL UND SUBSTRATE

Title (fr)
PARTICULES ET SUBSTRATS TRAITÉS

Publication
EP 3891321 A1 20211013 (EN)

Application
EP 19828087 A 20191204

Priority
• US 201862775049 P 20181204
• US 2019064461 W 20191204

Abstract (en)
[origin: WO2020117931A1] The present invention is directed to a particle having a chemical conversion coating on at least a portion of the particle surface. The present invention is further directed to a coated substrate comprising: (a) a surface that has been contacted with a particle having a chemical conversion coating on at least a portion of the particle surface such that at least some portion of the substrate becomes treated with the conversion coating.

IPC 8 full level
C23C 22/36 (2006.01); **B22F 1/16** (2022.01); **B24C 11/00** (2006.01); **C23C 22/44** (2006.01); **C23C 22/78** (2006.01)

CPC (source: EP KR US)
B22F 1/16 (2022.01 - EP KR US); **C23C 22/12** (2013.01 - KR US); **C23C 22/36** (2013.01 - KR); **C23C 22/73** (2013.01 - EP KR US); **C23C 22/78** (2013.01 - US); **C25D 11/00** (2013.01 - KR); **B24C 11/00** (2013.01 - EP); **C23C 22/36** (2013.01 - EP); **C25D 13/12** (2013.01 - EP); **C25D 13/14** (2013.01 - EP)

Citation (search report)
See references of WO 2020117931A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
WO 2020117931 A1 20200611; CN 113166948 A 20210723; EP 3891321 A1 20211013; JP 2022511031 A 20220128; KR 20210096654 A 20210805; MX 2021006705 A 20210707; SG 11202105740W A 20210629; US 2022049358 A1 20220217

DOCDB simple family (application)
US 2019064461 W 20191204; CN 201980080381 A 20191204; EP 19828087 A 20191204; JP 2021531726 A 20191204; KR 20217020468 A 20191204; MX 2021006705 A 20191204; SG 11202105740W A 20191204; US 201917311030 A 20191204