

Title (en)

PROCESS FOR PROTECTING AN ALUMINUM ALLOY PART

Title (de)

VERFAHREN ZUM SCHUTZ EINES ALUMINIUMLEGIERUNGSTEILS

Title (fr)

PROCÉDÉ DE PROTECTION D'UNE PIÈCE EN ALLIAGE À BASE D'ALUMINIUM

Publication

EP 4256105 A1 20231011 (FR)

Application

EP 21830452 A 20211125

Priority

- FR 2012621 A 20201203
- FR 2021052092 W 20211125

Abstract (en)

[origin: WO2022117935A1] A process (100) for protecting a part comprising an aluminum-based alloy, the process comprising depositing (102) a primer paint layer by anaphoresis over the entire part, polymerizing (104) the primer paint layer in order to form a non-conductive polymerized primer paint layer, laser pickling (106), by means of a laser beam, an area of the non-conductive polymerized primer paint layer in order to form an unpainted area, trivalent chromium chemical conversion (108) of the unpainted area in order to form a conductive protective layer and drying (110) the part, depositing (112) a finishing paint layer on at least a portion of the non-conductive polymerized primer paint layer, and polymerizing (114) the finishing paint layer.

IPC 8 full level

C23C 22/56 (2006.01); **C23C 22/73** (2006.01); **C23C 28/00** (2006.01); **C25D 13/22** (2006.01)

CPC (source: EP IL US)

B05D 7/14 (2013.01 - US); **B05D 7/584** (2013.01 - US); **C23C 22/56** (2013.01 - EP IL); **C23C 22/73** (2013.01 - EP IL); **C23C 28/00** (2013.01 - EP IL); **C25D 13/22** (2013.01 - EP IL US); **C23C 22/56** (2013.01 - US); **C23C 2222/10** (2013.01 - EP IL US)

Citation (search report)

See references of WO 2022117935A1

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

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

WO 2022117935 A1 20220609; CN 116583625 A 20230811; EP 4256105 A1 20231011; FR 3117131 A1 20220610; FR 3117131 B1 20221209; IL 303282 A 20230701; US 2024009700 A1 20240111

DOCDB simple family (application)

FR 2021052092 W 20211125; CN 202180081348 A 20211125; EP 21830452 A 20211125; FR 2012621 A 20201203; IL 30328223 A 20230529; US 202118255646 A 20211125