Title (en)

RELIABLE HIGH EXTRUSION RATE PRODUCTION METHOD FOR HIGH CORROSION RESISTANCE POWDERCOATED RECYCLE FRIENDLY ALUMINUM SOFT ALLOYS

Title (de)

ZUVERLÄSSIGES HERSTELLUNGSVERFAHREN MIT HOHER EXTRUSIONSGESCHWINDIGKEIT FÜR HOCH KORROSIONSBESTÄNDIGE RECYCLINGFREUNDLICHE ALUMINIUMWEICHLEGIERUNGEN

Title (fr)

PROCÉDÉ DE PRODUCTION FIABLE À VITESSE D'EXTRUSION ÉLEVÉE POUR DES ALLIAGES MOUS D'ALUMINIUM RECYCLABLES À HAUTE RÉSISTANCE À LA CORROSION

Publication

EP 3986629 B1 20230705 (EN)

Application

EP 21731160 A 20210609

Priority

- EP 20180037 A 20200615
- EP 2021051078 W 20210119
- EP 2021065484 W 20210609

Abstract (en)

[origin: WO2021254852A1] The present invention relates to a reliable high extrusion rate production method for recycle friendly aluminum soft alloy of the type 6060X, which besides Al,Mg and Si contains important amounts of Cu, Zn, Fe and Mn as alloying elements, followed by an pretreatment with an alkaline or acid etching of at least 1,0 prefarably 2 gram/m2 yielding to powdercoated aluminum profiles with a very high corrosion resistance after powder coating for the most common conversion (Ti, Zr,Ti/Zr, preanodisation, etc) – powdercoating systems available in the market.

IPC 8 full level

B21C 23/00 (2006.01); **B21C 23/03** (2006.01); **B21C 23/08** (2006.01); **B21C 37/04** (2006.01); **C22C 21/08** (2006.01); **C22F 1/00** (2006.01); **C22F 1/05** (2006.01)

CPC (source: EP)

B21C 23/002 (2013.01); **B21C 23/035** (2013.01); **B21C 29/006** (2013.01); **B21C 51/00** (2013.01); **C22C 21/08** (2013.01); **C22F 1/002** (2013.01); **C22F 1/05** (2013.01)

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

DOCDB simple family (publication)

WO 2021254852 A1 20211223; EP 3986629 A1 20220427; EP 3986629 B1 20230705; EP 3986629 C0 20230705; ES 2954874 T3 20231127; HU E062548 T2 20231128; PL 3986629 T3 20231023

DOCDB simple family (application)

EP 2021065484 W 20210609; EP 21731160 A 20210609; ES 21731160 T 20210609; HU E21731160 A 20210609; PL 21731160 T 20210609