

Title (en)

In-line surface treatment for obtaining aluminium extrusions coated with a corrosion-resistant layer

Title (de)

Inline-Oberflächenbehandlung zur Herstellung von Aluminiumstrangpressprofilen mit korrosionsbeständiger Beschichtung

Title (fr)

Traitement de surface en ligne pour obtenir des extrusions d'aluminium revêtues avec une couche résistante à la corrosion

Publication

**EP 2489448 B1 20131225 (EN)**

Application

**EP 11001244 A 20110216**

Priority

EP 11001244 A 20110216

Abstract (en)

[origin: EP2489448A1] Process for manufacturing aluminium alloy extruded profile parts which are resistant to the corrosion resulting from their contact with the air and humidity, comprising the following steps: a) providing a billet; b) extruding the billet through a die to create at least one profile having the desired shape and length and optionally cooling or quenching the profile after the exit of the die; c) optionally stretching the profile; d) sawing the extruded profile to obtain profile parts at the desired length; characterised in that during step b) a corrosion-resistant layer is coated on the fresh metal surface exiting from the extrusion press by spraying a fluid solution near the exit of the die. The fluid solution is preferably a sol gel medium made from mixing a polysiloxane solution and an aqueous colloidal silica solution. Profile parts coated with a corrosion resistant layer obtained by the said process.

IPC 8 full level

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CPC (source: EP)

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Cited by

US10596618B2; CN106367790A; CN115069813A; CN107164709A; CN113263334A; IT201800004684A1; CN118180188A; DE102015111440A1; DE102015111440B4; EP3287211A1; US2018056363A1; JP2018032716A; CN107774963A

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