

Title (en)

Method for anodised finishing of an aluminium metal profile section with a pattern, and profile section thus obtained.

Title (de)

Eloxalverfahren eines Metallprofils auf Aluminiumbasis mit Motiv, und so erhaltenes Profil

Title (fr)

Procédé de finition anodisée d'un profilé métallique à base d'aluminium, avec motif et profilé ainsi obtenu.

Publication

EP 2586894 B1 20131204 (FR)

Application

EP 12352004 A 20121018

Priority

FR 1159738 A 20111026

Abstract (en)

[origin: EP2586894A1] The method comprises preparing (1) a surface of an aluminum metal profile for an anodization bath, depositing (2) a coating layer containing a powder substance on the surface of profile on which a pattern is to be formed, drying (3) the coating layer, performing chemical staining on the profile, moving (5) the coating layer, using a laser beam, corresponding to the pattern to be formed on the surface of profile to sinter the powder substance on the profile, and cleaning (6) the surface of profile to remove the coating layer, immersing the profile in the bath at a high temperature. The method comprises preparing (1) a surface of an aluminum metal profile for an anodization bath, depositing (2) a coating layer containing a powder substance on the surface of profile on which a pattern is to be formed, drying (3) the coating layer, performing chemical staining on the profile, moving (5) the coating layer, using a laser beam, corresponding to the pattern to be formed on the surface of profile to sinter the powder substance on the profile, cleaning (6) the surface of profile to remove the coating layer, immersing the profile in the bath at a high temperature for a duration of 2-10 minutes to form an anodic oxidation layer on the surface of profile, which is in contact with the bath, and stabilizing the anodic oxidation layer. The powder substance is mixed with water, and comprises a mineral powder such as a ceramic powder. The laser beam is perpendicular to the surface of profile comprising the pattern. An independent claim is included for an aluminum metal profile.

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