

Title (en)  
Manufacturing process for satin-matt surface

Title (de)  
Herstellung seidenmatter Metalloberflächen

Title (fr)  
Procédé de fabrication d'une surface matte-satinée

Publication  
**EP 1780311 B1 20080507 (DE)**

Application  
**EP 05109770 A 20051020**

Priority  
EP 05109770 A 20051020

Abstract (en)  
[origin: EP1780311A1] A method for the production of satin-finish metal surfaces on a workpiece (1) involves (a) making a smooth surface (2) on (1), (b) applying a matt nickel coating (3) by electroplating without using organic delustering agents and then (c) applying a sulfamate-nickel coating (4).

IPC 8 full level  
**C25D 5/14** (2006.01)

CPC (source: EP US)  
**C25D 5/14** (2013.01 - EP US); **C25D 5/605** (2020.08 - EP US); **C25D 5/611** (2020.08 - EP US); **C25D 5/627** (2020.08 - EP US)

Cited by  
EP3170925A1; EP3604623A1; RU2672058C2; WO2017088982A1; US10273576B2; WO2014180537A1

Designated contracting state (EPC)  
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DOCDB simple family (publication)  
**EP 1780311 A1 20070502; EP 1780311 B1 20080507**; AT E394526 T1 20080515; DE 502005004040 D1 20080619; ES 2306023 T3 20081101; US 2009211913 A1 20090827; US 8105473 B2 20120131; WO 2007045688 A1 20070426

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