

Title (en)

METHOD AND APPARATUS FOR APPLYING A METAL COATING

Title (de)

VERFAHREN UND VORRICHTUNG ZUM AUFBRINGEN EINER METALLBESCHICHTUNG

Title (fr)

PROCÉDÉ ET APPAREIL POUR APPLIQUER UN REVÊTEMENT MÉTALLIQUE

Publication

EP 3377667 B1 20191009 (EN)

Application

EP 16795093 A 20161115

Priority

- EP 15195642 A 20151120
- EP 2016077711 W 20161115

Abstract (en)

[origin: WO2017085052A1] The invention relates to a method for applying a metal coating or metal based coating on a surface of a substrate or a part of that surface, wherein the surface of the substrate is electrically conductive, wherein the surface of the substrate is provided with a temperature that is suitable for applying the coating, wherein metal droplets are generated from a surface of a metal melt, wherein an inert gas is present in the area of the metal melt and the droplets and the surface of the substrate, and wherein a high voltage of between 1 and 30 kV is applied between the metal melt and the surface of the substrate, whereby the metal droplets impinge on the surface of the substrate to form a coating. The invention also relates to an apparatus with which the method can be implemented.

IPC 8 full level

C23C 4/06 (2016.01); **B05B 5/00** (2006.01); **B05B 5/14** (2006.01); **B05B 13/02** (2006.01); **B05B 17/06** (2006.01); **B05C 9/04** (2006.01); **B05D 1/02** (2006.01); **C23C 4/08** (2016.01); **C23C 4/123** (2016.01); **C23C 4/14** (2016.01)

CPC (source: EP)

B05B 5/001 (2013.01); **B05B 5/14** (2013.01); **B05B 17/0623** (2013.01); **C23C 4/06** (2013.01); **C23C 4/08** (2013.01); **C23C 4/123** (2016.01); **C23C 4/14** (2013.01); **B05B 13/0207** (2013.01); **B05B 17/0607** (2013.01); **B05C 9/04** (2013.01); **B05D 1/02** (2013.01); **B05D 2202/10** (2013.01); **B05D 2252/02** (2013.01); **B05D 2252/10** (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 2017085052 A1 20170526; EP 3377667 A1 20180926; EP 3377667 B1 20191009; ES 2752184 T3 20200403

DOCDB simple family (application)

EP 2016077711 W 20161115; EP 16795093 A 20161115; ES 16795093 T 20161115