

Title (en)

METAL COMPONENT HAVING FRICTION-REDUCING SURFACE COATING

Title (de)

METALLISCHES BAUTEIL MIT REIBUNGSVERMINDERNDER OBERFLÄCHENBESCHICHTUNG

Title (fr)

COMPOSANT MÉTALLIQUE POURVU D'UN REVÊTEMENT DE SURFACE RÉDUISANT LE FROTTEMENT

Publication

**EP 3414358 A1 20181219 (DE)**

Application

**EP 17712046 A 20170313**

Priority

- DE 102016204447 A 20160317
- EP 2017055801 W 20170313

Abstract (en)

[origin: WO2017157833A1] The invention relates to a metal component having a friction-reducing surface coating, in particular also having a protective coating against mechanical damage; a method for applying a surface coating and for removing the surface coating in a later process step; and finally a device for carrying out the method. According to the invention, in order to reduce damage and energy losses occurring as a result of friction losses and friction damage during a processing process, a plasma generation module is to be provided via which selected surfaces of the metal component can be coated with an organic protective coating in the nanometre range.

IPC 8 full level

**C23C 16/513** (2006.01); **C23C 16/26** (2006.01)

CPC (source: EP US)

**B05D 1/60** (2013.01 - US); **B05D 1/62** (2013.01 - US); **C23C 16/26** (2013.01 - EP US); **C23C 16/513** (2013.01 - EP US); **B05D 2202/15** (2013.01 - US)

Citation (search report)

See references of WO 2017157833A1

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**WO 2017157833 A1 20170921**; DE 102016204447 A1 20170921; EP 3414358 A1 20181219; US 2019151888 A1 20190523

DOCDB simple family (application)

**EP 2017055801 W 20170313**; DE 102016204447 A 20160317; EP 17712046 A 20170313; US 201716085198 A 20170313