

Title (en)

ANTI-GALLING METHOD FOR TREATING MATERIALS

Title (de)

VERFAHREN ZUR VERHINDERUNG VON FRESSEN ZUR BEHANDLUNG VON MATERIALIEN

Title (fr)

PROCÉDÉ ANTI-GRIPPAGE POUR LE TRAITEMENT DE MATÉRIAUX

Publication

EP 3169757 B1 20220105 (EN)

Application

EP 14781678 A 20140714

Priority

IT 2014000189 W 20140714

Abstract (en)

[origin: WO2016009453A1] An anti-galling method for treating materials, which provides for subjecting at least one of the at least two components mutually coupled with at least one degree of freedom, made of metallic material, to a first preliminary step of thermal treatments to increase surface hardness and to a second preliminary step of surface grinding, which consists in - performing a first step of washing at least one portion of the surface of the at least one component subjected previously to the preliminary steps; - performing a second step of shot peening the at least one portion of the surface of the at least one component previously subjected to washing; - performing a third step of applying a layer of molybdenum disulfide to the at least one portion of the at least one component previously subjected to shot peening.

IPC 8 full level

C10M 103/06 (2006.01); **B24C 1/10** (2006.01); **C21D 7/06** (2006.01); **C10N 30/06** (2006.01); **C10N 50/08** (2006.01); **C10N 80/00** (2006.01)

CPC (source: EP KR US)

B24C 1/10 (2013.01 - EP KR US); **C10M 103/06** (2013.01 - EP KR US); **C21D 7/06** (2013.01 - EP KR US);
C10M 2201/0663 (2013.01 - EP KR US); **C10N 2030/06** (2013.01 - EP KR US); **C10N 2050/08** (2013.01 - EP KR US);
C10N 2080/00 (2013.01 - EP KR US)

Citation (examination)

EP 1375695 A1 20040102 - NIPPON PISTON RING CO LTD [JP], et al

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 2016009453 A1 20160121; AU 2014401013 A1 20170112; AU 2014401013 B2 20181206; BR 112017000335 A2 20171107;
CN 106536692 A 20170322; CN 106536692 B 20200310; EP 3169757 A1 20170524; EP 3169757 B1 20220105; JP 2017528659 A 20170928;
KR 102219744 B1 20210224; KR 20170068429 A 20170619; US 2017175213 A1 20170622

DOCDB simple family (application)

IT 2014000189 W 20140714; AU 2014401013 A 20140714; BR 112017000335 A 20140714; CN 201480080413 A 20140714;
EP 14781678 A 20140714; JP 2017501702 A 20140714; KR 20177004021 A 20140714; US 201415325380 A 20140714