Title (en)

METHOD FOR IMPROVED TREATEMENT OF A SURFACE OF A FRICTION MEMBER

Title (de)

VERFAHREN ZUR VERBESSERTEN BEHANDLUNG EINER OBERFLÄCHE EINES REIBELEMENTS

Title (fr)

PROCEDE DE TRAITEMENT PERFECTIONNE D'UNE SURFACE D'UN ELEMENT DE FRICTION

Publication

EP 3129185 A1 20170215 (FR)

Application

EP 15717568 A 20150327

Priority

- FR 1453244 A 20140411
- FR 2015050788 W 20150327

Abstract (en)

[origin: WO2015155435A1] The invention relates to a method for treating a surface of a friction member comprising an organic matrix containing at least one inorganic material, such as a friction member of a clutch friction device (10). At least one area of said surface, referred to as the area to be treated (27), is treated by scanning it with a LASER beam along at least one predetermined path (25). The LASER beam has an energy density between 0.05 and 1 J/cm2, a frequency between 10 Hz and 10 kHz and a pulse duration between 1 ps and 1 ns.

IPC 8 full level

B23K 26/00 (2014.01); **F16D 13/64** (2006.01); **F16D 69/02** (2006.01)

CPC (source: CN EP KR)

B23K 26/0006 (2013.01 - CN EP KR); **B23K 26/3568** (2018.07 - EP); **B23K 26/3584** (2018.07 - EP KR); **F16D 13/64** (2013.01 - CN EP KR); **F16D 69/02** (2013.01 - CN); **F16D 69/026** (2013.01 - KR); B23K 2103/16 (2018.07 - EP KR); F16D 69/026 (2013.01 - EP); F16D 2250/0038 (2013.01 - CN EP KR)

Citation (search report)

See references of WO 2015155435A1

Citation (examination)

- EP 1262680 A1 20021204 - TMD FRICTION GMBH [DE]
- DE 3516759 A1 19851212 - ALLIED CORP [US]

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)

FR 3019767 A1 20151016; **FR 3019767 B1 20161223**; CN 106457464 A 20170222; CN 106457464 B 20190730; EP 3129185 A1 20170215; KR 20160142313 A 20161212; WO 2015155435 A1 20151015

DOCDB simple family (application)

FR 1453244 A 20140411; CN 201580025432 A 20150327; EP 15717568 A 20150327; FR 2015050788 W 20150327; KR 20167027976 A 20150327