

Title (en)  
PARTIAL STRUCTURING OF SLIDING SURFACES

Title (de)  
BEREICHSWEISES STRUKTURIEREN VON GLEITFLÄCHEN

Title (fr)  
STRUCTURATION PAR ZONES DE SURFACES DE GLISSEMENT

Publication  
**EP 2855952 A2 20150408 (DE)**

Application  
**EP 13726787 A 20130604**

Priority

- DE 102012104817 A 20120604
- EP 13160919 A 20130325
- EP 2013061432 W 20130604
- EP 13726787 A 20130604

Abstract (en)  
[origin: WO2013182539A2] When structuring the sliding bearing surfaces (1) of a crankshaft by selectively introduced, microscopically small depressions (27), to achieve a great reduction in friction during use of the crankshaft with little effort, it is proposed in the case of centre bearings and pin bearings to structure specifically only the regions of the bearing surface that are subjected to high levels of loading, both in the circumferential direction and in the axial direction, since even these are difficult to reach in view of the working gap from the tool of only a few microns.

IPC 8 full level  
**F16C 17/00** (2006.01)

CPC (source: EP KR US)  
**B23H 7/32** (2013.01 - EP US); **B23H 9/00** (2013.01 - EP US); **C25F 3/02** (2013.01 - EP US); **F16C 9/00** (2013.01 - KR); **F16C 9/02** (2013.01 - EP KR US); **F16C 17/00** (2013.01 - KR); **F16C 17/02** (2013.01 - EP US); **F16C 33/103** (2013.01 - EP KR US); **F16C 33/14** (2013.01 - EP KR US); **B23H 3/00** (2013.01 - EP US); **B23H 2200/10** (2013.01 - EP US); **B23H 2300/10** (2013.01 - EP US); **F16C 2220/60** (2013.01 - EP US); **F16C 2223/08** (2013.01 - EP US); **F16C 2223/10** (2013.01 - KR)

Citation (search report)  
See references of WO 2013182539A2

Citation (examination)  
US 4105267 A 19780808 - MORI SANAE

Cited by  
EP2821172B1

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 2013182539 A2 20131212; WO 2013182539 A3 20150416**; CN 104813042 A 20150729; EP 2855952 A2 20150408; JP 2015525323 A 20150903; KR 20150018785 A 20150224; MX 2014012354 A 20141125; RU 2014149142 A 20160727; US 2015167737 A1 20150618; US 9879726 B2 20180130

DOCDB simple family (application)  
**EP 2013061432 W 20130604**; CN 201380020875 A 20130604; EP 13726787 A 20130604; JP 2015514540 A 20130604; KR 20147031555 A 20130604; MX 2014012354 A 20130604; RU 2014149142 A 20130604; US 201314405629 A 20130604