

Title (en)
METHOD OF PRODUCING A PISTON FOR AN INTERNAL COMBUSTION ENGINE AND PISTON FOR AN INTERNAL COMBUSTION ENGINE

Title (de)
VERFAHREN ZUR HERSTELLUNG EINES KOLBENS FÜR EINEN VERBRENNUNGSMOTOR SOWIE KOLBEN FÜR EINEN VERBRENNUNGSMOTOR

Title (fr)
PROCEDE DE FABRICATION D'UN PISTON POUR UN MOTEUR A COMBUSTION INTERNE, ET PISTON POUR UN MOTEUR A COMBUSTION INTERNE

Publication
EP 1907684 A1 20080409 (DE)

Application
EP 06754607 A 20060626

Priority
• EP 2006006262 W 20060628
• DE 102005034905 A 20050726

Abstract (en)
[origin: WO2007012373A1] The invention relates to a method of producing a piston (1) with a combustion chamber recess (2) for an internal combustion engine, in which at least one region of the combustion chamber recess (2) comprising at least one recess base (20) is melt-treated in order to re-melt a material in the melt-treated region, so that a buildup of the material in the melt-treated region is changed in a layer with a definable depth, and relates to such a piston (1).

IPC 8 full level
F02F 3/26 (2006.01)

CPC (source: EP US)
C21D 1/09 (2013.01 - EP US); **F02F 3/14** (2013.01 - EP US); **F02F 3/26** (2013.01 - EP US); **Y10T 29/49249** (2015.01 - EP US)

Citation (search report)
See references of WO 2007012373A1

Citation (examination)
"Energieriche Strahlen verbessern Eigenschaften von Motorenkolben", ALUMINIUM, ALUMINIUM VERLAG, DUESSELDORF, DE, vol. 62, 1 January 1986 (1986-01-01), pages 1,2,171, XP003021130, ISSN: 0002-6689

Citation (third parties)
Third party :
• "Energieriche Strahlen verbessern Eigenschaften von Motorenkolben", ALUMINIUM, vol. 62, 1986, pages 1,2,171, XP003021130
• "Lokale Warmverformung - Elektronen Umschmelzen - Plasmastrahl Umschmelzen", KOLLOQUIUM 1973, 1973, pages 1,25, XP003021131

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
DE 102005034905 A1 20070201; EP 1907684 A1 20080409; JP 2009503320 A 20090129; US 2009000470 A1 20090101; WO 2007012373 A1 20070201; WO 2007012373 A8 20080529

DOCDB simple family (application)
DE 102005034905 A 20050726; EP 06754607 A 20060626; EP 2006006262 W 20060628; JP 2008523154 A 20060626; US 99675806 A 20060626