

Title (en)  
CYLINDER SLEEVE FOR AN INTERNAL COMBUSTION ENGINE

Title (de)  
LAUFBUCHSE FÜR EINEN VERBRENNUNGSMOTOR

Title (fr)  
CHEMISE DE CYLINDRE POUR MOTEUR A COMBUSTION INTERNE

Publication  
**EP 1721072 B1 20170405 (DE)**

Application  
**EP 05714992 A 20050218**

Priority

- DE 2005000283 W 20050218
- DE 102004007774 A 20040218

Abstract (en)  
[origin: WO2005078265A1] Disclosed is a cylinder sleeve for an internal combustion engine. The outer surface of said cylinder sleeve is provided with a flat zone (61) that extends along the entire axial length thereof. The inventive cylinder sleeve is embodied as a rough cast sleeve whose outer surface comprises a rough zone that extends along the entire axial length thereof and consists of a plurality of elevations with undercuts in order to ensure that a sufficient amount of combustion heat generated during operation of the engine is discharged.

IPC 8 full level  
**F02F 1/00** (2006.01); **B22D 19/00** (2006.01); **F02F 1/10** (2006.01); **F02F 1/16** (2006.01)

CPC (source: EP KR US)  
**B22D 19/00** (2013.01 - KR); **B22D 19/0009** (2013.01 - EP US); **F02F 1/00** (2013.01 - EP KR US); **F02F 1/10** (2013.01 - EP KR US); **F02F 1/16** (2013.01 - EP KR US); **F05C 2201/0439** (2013.01 - EP US); **F05C 2201/903** (2013.01 - EP US); **F05C 2251/042** (2013.01 - EP US); **Y10T 29/49272** (2015.01 - EP US)

Citation (examination)

- JP H0979085 A 19970325 - MITSUBISHI AUTO ENG, et al
- WO 0139910 A2 20010607 - MAHLE VENTILTRIEB GMBH [DE], et al

Designated contracting state (EPC)  
DE FR GB IT

DOCDB simple family (publication)  
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**DE 2005000283 W 20050218**; BR PI0507731 A 20050218; CN 2005900000003 U 20050218; DE 102004007774 A 20040218; EP 05714992 A 20050218; JP 2006553431 A 20050218; KR 20067016912 A 20050218; US 58979205 A 20050218