

Title (en)

COOLING CHANNEL COVERING FOR A PISTON OF AN INTERNAL COMBUSTION ENGINE

Title (de)

KÜHLKANALABDECKUNG FÜR EINEN KOLBEN EINES VERBRENNUNGSMOTORS

Title (fr)

CAPOT DE CANAL DE REFROIDISSEMENT DESTINE A UN PISTON D'UN MOTEUR A COMBUSTION INTERNE

Publication

EP 1738066 A1 20070103 (DE)

Application

EP 05737984 A 20050419

Priority

- DE 2005000717 W 20050419
- DE 102004019011 A 20040420

Abstract (en)

[origin: WO2005103473A1] The invention relates to a cooling channel covering for a piston (8) of an internal combustion engine in the form of a spring steel sheet (1) which is measured in such a manner that wear and tear in the region of the surface (9) is prevented, in such a manner that a peripheral gap (12) is produced between the radial, external front side of the spring steel sheet (1) and the radial, external limit of the step-shaped recess (19).

IPC 8 full level

F02F 3/22 (2006.01)

CPC (source: EP KR US)

F02F 3/16 (2013.01 - KR); F02F 3/22 (2013.01 - EP KR US)

Citation (search report)

See references of WO 2005103473A1

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

WO 2005103473 A1 20051103; BR PI0510067 A 20071016; BR PI0510067 B1 20180904; CN 1977103 A 20070606;
DE 102004019011 A1 20051117; EP 1738066 A1 20070103; EP 1738066 B1 20180124; JP 2007533904 A 20071122; JP 4598059 B2 20101215;
KR 101246395 B1 20130321; KR 20070009683 A 20070118; US 2007209614 A1 20070913; US 7415959 B2 20080826

DOCDB simple family (application)

DE 2005000717 W 20050419; BR PI0510067 A 20050419; CN 200580012860 A 20050419; DE 102004019011 A 20040420;
EP 05737984 A 20050419; JP 2007508723 A 20050419; KR 20067023476 A 20050419; US 57887605 A 20050419