

Title (en)  
PISTON FOR AN INTERNAL COMBUSTION ENGINE

Title (de)  
KOLBEN FÜR EINEN VERBRENNUNGSMOTOR

Title (fr)  
PISTON POUR UN MOTEUR A COMBUSTION INTERNE

Publication  
**EP 1664515 A1 20060607 (DE)**

Application  
**EP 04786700 A 20040901**

Priority  
• DE 2004001938 W 20040901  
• DE 10340292 A 20030902

Abstract (en)  
[origin: WO2005024216A1] Disclosed is a piston (1) for an internal combustion engine, comprising an essentially cylindrical basis member (4) made of forged aluminum and a ring element (6) that is disposed in the radially outer edge area of the bottom (5) of the piston and forms an annular cooling channel (22) along with the basic member (4). The ring element (6) is made of cast aluminum and is provided with a ring support (11) for a compression ring, said ring support (11) being made of Ni-resist.

IPC 1-7  
**F02F 3/00**; **F02F 3/22**; **F16J 1/00**

IPC 8 full level  
**F02F 3/00** (2006.01); **F02F 3/22** (2006.01); **F16J 1/00** (2006.01); **F16J 1/09** (2006.01)

CPC (source: EP KR US)  
**F02F 3/00** (2013.01 - KR); **F02F 3/0023** (2013.01 - EP US); **F02F 3/003** (2013.01 - EP US); **F02F 3/22** (2013.01 - EP KR US); **F16J 1/00** (2013.01 - KR); **F16J 1/005** (2013.01 - EP US); **F16J 1/09** (2013.01 - EP US)

Citation (search report)  
See references of WO 2005024216A1

Designated contracting state (EPC)  
DE FR GB IT

DOCDB simple family (publication)  
**WO 2005024216 A1 20050317**; BR PI0414071 A 20061024; CN 1842648 A 20061004; DE 10340292 A1 20050414; EP 1664515 A1 20060607; JP 2007504388 A 20070301; KR 20070020171 A 20070220; US 2006278180 A1 20061214

DOCDB simple family (application)  
**DE 2004001938 W 20040901**; BR PI0414071 A 20040901; CN 200480024745 A 20040901; DE 10340292 A 20030902; EP 04786700 A 20040901; JP 2006525040 A 20040901; KR 20067004117 A 20060228; US 57010406 A 20060403