

Title (en)  
PISTON FOR AN INTERNAL COMBUSTION ENGINE

Title (de)  
KOLBEN FÜR EINEN VERBRENNUNGSMOTOR

Title (fr)  
PISTON DE MOTEUR À COMBUSTION INTERNE

Publication  
**EP 2542771 A2 20130109 (DE)**

Application  
**EP 11720285 A 20110302**

Priority  
• DE 102010009891 A 20100302  
• DE 2011000211 W 20110302

Abstract (en)  
[origin: WO2011107079A2] The present invention relates to a piston (10, 110, 210) for an internal combustion engine, comprising a piston crown (13), a circumferential ring part (16), a circumferential cooling channel (27) arranged in the vicinity of the ring part (16), boss supports (21) connected below the piston crown (13), piston bosses (18) connected thereto, and a piston skirt (17). According to the invention, a cavity (28) closed on all sides and having a closure element (29, 129, 229) arranged in the direction of the piston skirt (17) is provided below the piston crown (13).

IPC 8 full level  
**F02F 3/18** (2006.01); **F02F 3/20** (2006.01)

CPC (source: EP KR US)  
**F02F 3/003** (2013.01 - EP US); **F02F 3/18** (2013.01 - EP KR US); **F02F 3/20** (2013.01 - EP KR US)

Citation (search report)  
See references of WO 2011107079A2

Cited by  
DE102019121728B3

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

DOCDB simple family (publication)  
**DE 102010009891 A1 20110908**; BR 112012022256 A2 20161025; EP 2542771 A2 20130109; EP 2542771 B1 20161228; JP 3182263 U 20130321; KR 20130041770 A 20130425; US 2013055969 A1 20130307; US 8584626 B2 20131119; WO 2011107079 A2 20110909; WO 2011107079 A3 20111110

DOCDB simple family (application)  
**DE 102010009891 A 20100302**; BR 112012022256 A 20110302; DE 2011000211 W 20110302; EP 11720285 A 20110302; JP 2012600074 U 20110302; KR 20127025063 A 20110302; US 201113582129 A 20110302