

Title (en)
TWO-PIECE PISTON FOR AN INTERNAL COMBUSTION ENGINE

Title (de)
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Title (fr)
PISTON EN DEUX PARTIES POUR MOTEUR À COMBUSTION INTERNE

Publication
EP 2188513 B1 20170301 (DE)

Application
EP 08801217 A 20080823

Priority
• DE 2008001394 W 20080823
• DE 102007044106 A 20070915

Abstract (en)
[origin: WO2009033446A1] The invention relates to a two-piece piston (1) for an internal combustion engine, comprising a piston base body (2) and a ring element (3), which is soldered to the piston base body (2) by an upper solder connection (23) having the length b, which is disposed on the radial inside of a piston crown (4) formed at least partially by the ring element (3), and by a lower solder connection (24) having the length c, which is disposed radially outside on the top of a center part (9). In order to improve the strength of the solder connections (23) and (24) due to pressure and temperature-related deformations of the upper piston part, the ring element (3) has a peripheral, upper, thinner wall region (49) in the region of the piston crown (4) radially outside the upper solder connection (23) and further a peripheral, lower, thinner wall region (50) between the ring section (5) and the lower solder connection (24), wherein the thickness a and b of the thinner wall regions (49) and (50) has a lower value than the length b and c of the solder connections (23) and (24).

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

CPC (source: EP US)
F02F 3/003 (2013.01 - EP US); **F02F 3/22** (2013.01 - EP US); **F02F 2003/0038** (2013.01 - EP US)

Cited by
US10926362B2; WO2020123094A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)
DE 102007044106 A1 20090319; CN 101802381 A 20100811; CN 101802381 B 20151125; EP 2188513 A1 20100526; EP 2188513 B1 20170301; JP 2010539369 A 20101216; JP 5295245 B2 20130918; KR 101484352 B1 20150119; KR 20100069646 A 20100624; US 2010307445 A1 20101209; US 8225765 B2 20120724; WO 2009033446 A1 20090319

DOCDB simple family (application)
DE 102007044106 A 20070915; CN 200880107005 A 20080823; DE 2008001394 W 20080823; EP 08801217 A 20080823; JP 2010524343 A 20080823; KR 20107005239 A 20080823; US 73365208 A 20080823