

Title (en)

LIGHT-METAL PISTON HAVING A MULTIPLE OMEGA-SHAPED COMBUSTION BOWL

Title (de)

LEICHTMETALLKOLBEN MIT MEHRFACH-OMEGA-BRENNRAUMMULDE

Title (fr)

PISTON EN MÉTAL LÉGER À BOL DE COMBUSTION MULTI-CAVITÉ

Publication

EP 2440760 A1 20120418 (DE)

Application

EP 10744671 A 20100528

Priority

- EP 2010003271 W 20100528
- DE 102009025063 A 20090610

Abstract (en)

[origin: WO2010142389A1] The invention relates to a piston (1) of a diesel internal combustion engine which piston is produced of a light-metal material, especially of aluminum or an aluminum alloy, and which comprises a piston top (2) that has a combustion bowl (4a) in the region of a piston crown (3). The exterior of the piston top (2) has a ring groove region (5) destined to accommodate piston rings, a piston skirt (6) being contiguous to said ring groove region and the piston skirt having diametrically opposed hub bores (7). In order to form a multiple omega-shaped combustion bowl (8), the bowl edge (10a) is surrounded by a radially interspaced rounded-off recess introduced in the piston crown (3).

IPC 8 full level

F02B 23/06 (2006.01)

CPC (source: EP)

F02B 23/0672 (2013.01); **Y02T 10/12** (2013.01)

Citation (search report)

See references of WO 2010142389A1

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 SE SI SK SM TR

DOCDB simple family (publication)

WO 2010142389 A1 20101216; DE 102009025063 A1 20101230; EP 2440760 A1 20120418

DOCDB simple family (application)

EP 2010003271 W 20100528; DE 102009025063 A 20090610; EP 10744671 A 20100528