

Title (en)
DISSYMMETRICAL COMBUSTION CHAMBER FOR THERMAL ENGINE

Title (de)
DISSYMMETRISCHE VERBRENNUNGSKAMMER FÜR EINE WÄRMEKRAFTMASCHINE

Title (fr)
CHAMBRE DE COMBUSTION DISSYMETRIQUE POUR MOTEUR THERMIQUE

Publication
EP 2225444 A1 20100908 (FR)

Application
EP 08862416 A 20081215

Priority
• EP 2008067508 W 20081215
• FR 0760032 A 20071219

Abstract (en)
[origin: WO2009077487A1] The invention relates to a piston (3) for an internal combustion engine, in particular a diesel engine, that comprises a body defined laterally by a skirt capable of interaction with the walls of a cylinder having a revolution axis C in which the piston (3) is capable of sliding along said axis C, said piston (3) including a front face that comprises a central lug (321), a peripheral crown (322) and a bowl (323) having a revolution axis B extending from the central lug (321) to the peripheral crown (322) to which it is connected at a lip (3220) having a thickness Ep, said bowl (323) including substantially over the lip (3220) a tore (3230) preferably having a half-dome profile with a maximum radius Rt and capable of guiding a fuel injected under the lip (3220) in the region of a re-entrant R towards said central lug (321), characterised in that the top of the central lug has a flat area centred on the revolution axis B of the bowl and having a width Lt of between 6 mm and 10 mm, and preferably substantially equal to 7.8 mm.

IPC 8 full level
F02B 23/06 (2006.01)

CPC (source: EP)
F02B 23/0672 (2013.01); **F02B 3/06** (2013.01); **Y02T 10/12** (2013.01)

Citation (search report)
See references of WO 2009077487A1

Citation (examination)
• US 2006070603 A1 20060406 - STANTON DONALD W [US], et al
• EP 0412552 A1 19910213 - MITSUBISHI MOTORS CORP [JP]

Cited by
CN106536889A

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

Designated extension state (EPC)
AL BA MK RS

DOCDB simple family (publication)
FR 2925606 A1 20090626; EP 2225444 A1 20100908; WO 2009077487 A1 20090625

DOCDB simple family (application)
FR 0760032 A 20071219; EP 08862416 A 20081215; EP 2008067508 W 20081215