

Title (en)
Piston combustion engine

Title (de)
Kolbenbrennkraftmaschine

Title (fr)
Moteur a combustion a piston

Publication
EP 2781718 A3 20150304 (EN)

Application
EP 14461513 A 20140312

Priority
PL 40316313 A 20130315

Abstract (en)
[origin: EP2781718A2] Piston combustion engine characterised in that the basic engine unit is formed by a pair of cylinders 1, 2 with separate combustion chambers 12, 13, connected with each other by means of at least one through-conduit 7, arranged at a height between the bottom dead centre of the piston and the top dead centre of the piston of each of the cylinders forming a pair, wherein the intake port of the through-conduit may be arranged at a different height than the exhaust port of that conduit, whereby one of the cylinders of the pair comprises at least one intake port 8, and the other of the cylinders of the pair comprises at least one exhaust port, and yet further, the working cycle of one piston is shifted in phase relative to the cycle of the other piston by an angle $\pm \neq 0^\circ$. The engine may include more than one basic unit, forming a pair.

IPC 8 full level
F02B 41/06 (2006.01); **F02M 25/07** (2006.01)

CPC (source: EP)
F02B 41/06 (2013.01); **F02M 26/43** (2016.02)

Citation (search report)

- [X] US 4131090 A 19781226 - JARNUSZKIEWICZ STANISLAW
- [X] WO 9428300 A1 19941208 - ORBITAL ENG PTY [AU], et al
- [X] JP 2002021568 A 20020123 - HATTORI HACHIRO
- [X] EP 1930570 A1 20080611 - FORD GLOBAL TECH LLC [US]
- [X] JP S4723515 U 19721116
- [X] JP S52102910 A 19770829 - IWATA SHIROHACHI

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

Designated extension state (EPC)
BA ME

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EP 14461513 A 20140312; PL 40316313 A 20130315