

Title (en)
RECIPROCATING PISTON INTERNAL COMBUSTION ENGINE

Title (de)
HUBKOLBEN-BRENNKRAFTMASCHINE

Title (fr)
MOTEUR A COMBUSTION INTERNE A PISTONS ALTERNATIFS

Publication
EP 1880093 A1 20080123 (DE)

Application
EP 06724213 A 20060410

Priority
• EP 2006003282 W 20060410
• DE 102005020064 A 20050429

Abstract (en)
[origin: WO2006117060A1] The invention relates to a reciprocating piston internal combustion engine comprising at least one cylinder (1) which is arranged in such a way that it is back and forth movable, a first crankshaft (4) and a second crankshaft (6), wherein said crankshafts (4, 6) are engageable with each other by means of synchronisation toothed wheels (42, 62) and are placed in at least one common bearing block (7; 107; 207), said bearing block (7; 107; 207) is made of a material exhibiting a first thermal expansion coefficient, said synchronisation toothed wheels (42, 62) are made of a material exhibiting a second thermal expansion coefficient, the sizes of the bearing block (7; 107; 207) and synchronisation toothed wheels (42, 62) in the radial direction and the first and second thermal expansion coefficients are mutually agreed in such a way that the thermal expansion of the bearing block (7; 107; 207) between two axes of rotation (X, X") is substantially identical to the thermal expansion of the synchronisation toothed wheels (42, 62).

IPC 8 full level
F02B 75/06 (2006.01); **F16H 57/12** (2006.01)

CPC (source: EP US)
F02B 75/065 (2013.01 - EP US); **F05C 2251/044** (2013.01 - EP US); **F16H 57/12** (2013.01 - EP US)

Citation (search report)
See references of WO 2006117060A1

Cited by
DE102017005540A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2006117060 A1 20061109; **WO 2006117060 A9 20080124**; DE 102005020064 A1 20061116; DE 102005020064 B4 20070215;
EP 1880093 A1 20080123; US 2010077984 A1 20100401

DOCDB simple family (application)
EP 2006003282 W 20060410; DE 102005020064 A 20050429; EP 06724213 A 20060410; US 91937206 A 20060410