

Title (en)

CRANKCASE FOR PISTON ENGINES, ESPECIALLY V-ENGINES

Title (de)

MASCHINENGHÄUSE FÜR HUBKOLBENMASCHINEN, INSBESONDERE V-MOTOREN

Title (fr)

CARTER POUR MOTEURS A PISTONS ALTERNATIFS, NOTAMMENT MOTEURS EN V

Publication

EP 0885354 B1 19991110 (DE)

Application

EP 97905024 A 19970214

Priority

- DE 19608877 A 19960307
- EP 9700696 W 19970214

Abstract (en)

[origin: DE19608877A1] The crankcase (1) for piston engines, especially V-engines (2) has a power unit (3) of a ferrous material in a light-metal casing (4). In order to provide a rigid, lightened power unit (3), is proposed that a flange plate (5), serving to bound the crankshaft chamber and provide the bond to the casing, be offset towards the upper end of a cylinder so that its surface centre of gravity, seen from its frontal end, is at a distance on the near side of the central bearing plane of a crankshaft bearing (7) corresponding at least to the greatest possible distance of the surface centre of gravity of a stiffening section of a bearing cap (9) on the other side of the central bearing plane (11), where the crankshaft bearings (7) are secured to the flange plant (5) by struts.

IPC 1-7

F02F 7/00; **B22D 19/00**

IPC 8 full level

B22D 19/00 (2006.01); **F02B 75/22** (2006.01); **F02F 1/10** (2006.01); **F02F 7/00** (2006.01)

CPC (source: EP US)

B22D 19/0009 (2013.01 - EP US); **F02B 75/22** (2013.01 - EP US); **F02F 1/108** (2013.01 - EP US); **F02F 7/0012** (2013.01 - EP US)

Cited by

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DOCDB simple family (publication)

DE 19608877 A1 19970911; DE 59700695 D1 19991216; EP 0885354 A1 19981223; EP 0885354 B1 19991110; ES 2139441 T3 20000201; JP 2000506243 A 20000523; US 6135081 A 20001024; WO 9733084 A1 19970912

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