

Title (en)

FREE PISTON INTERNAL-COMBUSTION ENGINE WITH AN INDEPENDENTLY DRIVEN CAM

Publication

**EP 0078561 A3 19831109 (FR)**

Application

**EP 82201290 A 19821018**

Priority

IT 6840781 A 19811030

Abstract (en)

[origin: EP0078561A2] The engine comprises one or more units having a pair of pistons on a common shaft connecting two opposed cylinders and driving the permanent-magnet moving part of a linear alternator. The shaft carries two robust pegs engaging the rim of a cam driven by an independent eccentric motor. The cam rotates substantially in synchronism with the engine so that the pegs are in virtual contact with it and no energy loss is implied. The contact becomes positive if the piston rod overruns or if one cylinder misfiring fails to initiate compression in the other. The engine can be started by means of the independent motor without recourse to compressed air or use of the linear alternator as a starter motor.

IPC 1-7

**F02B 71/04**

IPC 8 full level

**F02B 71/04** (2006.01); **F02B 75/04** (2006.01)

CPC (source: EP)

**F02B 71/04** (2013.01); **F02B 75/04** (2013.01); **F02B 63/041** (2013.01)

Citation (search report)

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- FR 2279933 A1 19760220 - GUILLON MARCEL [FR]
- FR 2136370 A5 19721222 - SULZER AG
- GB 435750 A 19350926 - FERNAND RADELET, et al
- DE 2621016 A1 19761125 - RESONANCE MOTORS INC

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WO2006097968A1; KR101279208B1

Designated contracting state (EPC)

AT BE CH DE FR GB LI NL SE

DOCDB simple family (publication)

**EP 0078561 A2 19830511**; **EP 0078561 A3 19831109**; **EP 0078561 B1 19850925**; AT E15828 T1 19851015; AU 552332 B2 19860529; AU 8983982 A 19830505; DE 3266566 D1 19851031; ES 516602 A0 19831101; ES 8400539 A1 19831101; IT 1145573 B 19861105; IT 8168407 A0 19811030; JP H0263093 B2 19901227; JP S5882023 A 19830517

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