

Title (en)

INTERNAL-COMBUSTION ENGINE WITH A STAR-SHAPED CYLINDER CONFIGURATION, AND WITHOUT A CRANK SHAFT OR CONNECTING RODS

Publication

EP 0269536 B1 19910123 (FR)

Application

EP 87420314 A 19871124

Priority

FR 8616862 A 19861128

Abstract (en)

[origin: FR2607552A1] Combustion engine without connecting rods or crankshaft whose cylinders are arranged in a star configuration, the axes of these cylinders being located in a plane perpendicular to the drive shaft 1, the transmission of the reciprocating movement of the pistons 32 taking place via rollers 13 secured to these pistons and rolling over a cam 2 secured to the drive shaft 1, characterised in that two secondary cams 41, 42 are added on each side of the main cam 2, two secondary rollers 43, 44, also located on each side of the main roller 13, coming to bear on the said secondary cams 41, 42 and the three cams 41, 42, 2 being positioned so that the tips of the lobes which they comprise are in the plane of the axis of the drive shaft 1 at top dead centre. <IMAGE>

IPC 1-7

F01B 9/06; **F02B 75/22**; **F02B 75/32**

IPC 8 full level

F01B 1/06 (2006.01); **F01B 9/06** (2006.01); **F02B 75/02** (2006.01); **F02B 75/22** (2006.01); **F02B 75/32** (2006.01); **F02B 75/18** (2006.01)

CPC (source: EP US)

F01B 1/0648 (2013.01 - EP US); **F01B 9/06** (2013.01 - EP US); **F02B 75/02** (2013.01 - EP US); **F02B 75/22** (2013.01 - EP US); **F02B 75/222** (2013.01 - EP US); **F02B 75/32** (2013.01 - EP US); **F01B 2009/063** (2013.01 - EP US); **F01B 2009/065** (2013.01 - EP US); **F01B 2009/066** (2013.01 - EP US); **F02B 2075/027** (2013.01 - EP US); **F02B 2075/1816** (2013.01 - EP US)

Cited by

FR2679604A1; FR2651829A1; CN111287848A; FR2818314A1

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EP 0269536 A2 19880601; **EP 0269536 A3 19890405**; **EP 0269536 B1 19910123**; DE 3767677 D1 19910228; FR 2607552 A1 19880603; FR 2607552 B1 19910719; JP S63239318 A 19881005; US 4848282 A 19890718

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