

Title (en)
Internal combustion engine

Title (de)
Brennkraftmaschine

Title (fr)
Moteur à combustion

Publication
EP 1728976 A1 20061206 (EN)

Application
EP 06011297 A 20060531

Priority
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Abstract (en)
The present invention relates to an internal combustion engine, in particular multicylinder internal combustion engine (10), comprising a cam shaft (11,12) having at least one cam (13a-h,14a-h) for depressing a rocker arm (21,22), and at least one cam carrier (15), said cam carrier (15) being detachably mounted on a cylinder head (9), and being formed integrally with a cam shaft bearing portion (15m) and with a rocker shaft support section (15h), said rocker shaft support section (15h) independently supporting a rocker shaft (23,24) inserted in the rocker shaft support section.

IPC 8 full level
F01L 1/053 (2006.01)

CPC (source: EP US)
F01L 1/053 (2013.01 - EP US); **F01L 1/185** (2013.01 - EP US); **F01L 2001/0537** (2013.01 - EP US)

Citation (applicant)
• DE 19504636 A1 19960822 - DAIMLER BENZ AG [DE]
• JP 2000170506 A 20000620 - HONDA MOTOR CO LTD
• JP 2537205 B2 19960925

Citation (search report)
• [XA] DE 19504636 A1 19960822 - DAIMLER BENZ AG [DE]
• [XA] US 5617818 A 19970408 - LUEDERS MICHAEL [DE]
• [XA] US 4660515 A 19870428 - ARAKAWA TETSUO [JP], et al
• [X] DE 3515348 A1 19861106 - KLOECKNER HUMBOLDT DEUTZ AG [DE]
• [X] US 4793297 A 19881227 - FUJII NORIAKI [JP], et al
• [A] US 5070824 A 19911210 - MORISHITA ISAO [JP]
• [DX] PATENT ABSTRACTS OF JAPAN vol. 2000, no. 09 13 October 2000 (2000-10-13)

Cited by
EP2093391A3; US11692503B2; US8033256B2

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