

Title (en)

An internal combustion engine with an improved distribution control device

Title (de)

Brennkraftmaschine mit verbessertem Steuertrieb

Title (fr)

Moteur à combustion interne avec une distribution améliorée

Publication

EP 1357256 A3 20040121 (EN)

Application

EP 03009446 A 20030425

Priority

IT TO20020359 A 20020426

Abstract (en)

[origin: EP1357256A2] An internal combustion engine comprising a drive shaft (7), at least one overhead camshaft (10) and a transmission device (1) for the rotational connection of the camshaft (10) to the drive shaft (7) in a phased manner, comprising a first transmission unit (17) connecting the drive shaft (7) to an intermediate shaft (11) and a second transmission unit (18) connecting the intermediate shaft (11) to the camshaft (10) ; the first transmission unit (17) comprises an auxiliary shaft (19) having an axis (E) parallel to and alongside the axis (A) of the drive shaft (7) and adapted to drive an oil pump (24) of the engine (2), a pair of gears (20, 21) connecting the drive shaft (7) to the auxiliary shaft (19) and a chain (42) connecting the auxiliary shaft (19) to the intermediate shaft (11). <IMAGE>

IPC 1-7

F01L 1/02

IPC 8 full level

F01L 1/02 (2006.01)

CPC (source: EP)

F01L 1/02 (2013.01); **F01L 1/022** (2013.01); **F01L 1/024** (2013.01); **F01L 2001/0535** (2013.01); **F01L 2001/0537** (2013.01)

Citation (search report)

- [XY] US 5154144 A 19921013 - OKUI KAORU [JP], et al
- [XAY] US 5724930 A 19980310 - SAKURAI KENICHI [JP], et al
- [Y] DE 4128432 A1 19930304 - KLOECKNER HUMBOLDT DEUTZ AG [DE]
- [Y] DE 19816032 A1 19981126 - VOLKSWAGEN AG [DE]
- [Y] FR 2075754 A5 19711008 - ALFIERI MASERATI OFFICIN
- [A] US 4373240 A 19830215 - CASTOE JOHN H [US]

Cited by

CN105339642A; JP2015203354A; WO2015152404A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)

EP 1357256 A2 20031029; EP 1357256 A3 20040121; EP 1357256 B1 20101124; AT E489537 T1 20101215; DE 60335056 D1 20110105; ES 2356472 T3 20110408; IT TO20020359 A0 20020426; IT TO20020359 A1 20031027

DOCDB simple family (application)

EP 03009446 A 20030425; AT 03009446 T 20030425; DE 60335056 T 20030425; ES 03009446 T 20030425; IT TO20020359 A 20020426