

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 A2 20031029 (EN)**

Application  
**EP 03009446 A 20030425**

Priority  
IT TO20020359 A 20020426

Abstract (en)  
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 (applicant)  
US 5754744 A 19980519 - MATSUMOTO KENJI [JP], et al

Cited by  
CN105339642A; JP2015203354A; WO2015152404A1

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