

Title (en)

An internal combustion engine, particularly for motor vehicles.

Title (de)

Brennkraftmaschine, insbesondere für Kraftwagen.

Title (fr)

Moteur à combustion interne notamment pour véhicule automobile.

Publication

**EP 0376901 A1 19900704 (EN)**

Application

**EP 89830554 A 19891219**

Priority

IT 6817988 A 19881230

Abstract (en)

An internal combustion engine for motor vehicles, in which the oil pump (17) and the pulley (21) for driving the auxiliary equipment are driven by the crankshaft (11) through an auxiliary shaft (19) which is coupled torsionally within a hollow end portion (11a) of the crankshaft, in axial correspondence with the respective main bearing (12).

IPC 1-7

**F01M 1/02**; **F04C 11/00**

IPC 8 full level

**F01M 1/02** (2006.01); **F04C 11/00** (2006.01)

CPC (source: EP)

**F01M 1/02** (2013.01); **F04C 11/00** (2013.01)

Citation (search report)

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Designated contracting state (EPC)

DE ES FR GB SE

DOCDB simple family (publication)

**EP 0376901 A1 19900704**; BR 8906872 A 19900925; IT 1224053 B 19900926; IT 8868179 A0 19881230

DOCDB simple family (application)

**EP 89830554 A 19891219**; BR 8906872 A 19891227; IT 6817988 A 19881230