

Title (en)  
DRIVE MECHANISM FOR A MOTOR VEHICLE

Title (de)  
ANTRIEB EINES KRAFTFAHRZEUGES

Title (fr)  
ENTRAINEMENT DE VEHICULE AUTOMOBILE

Publication  
**EP 0939859 B1 20030129 (DE)**

Application  
**EP 98949906 A 19980817**

Priority  
• DE 9802390 W 19980817  
• DE 19741294 A 19970919

Abstract (en)  
[origin: DE19741294A1] The drive has an IC engine (12) with an electrical machine (22) coupled to its crankshaft (16) and switchable between motor and generator mode and an electronic controller for the engine's direct fuel injection and ignition. To start the engine, the crankshaft is brought into a defined position by the machine in motor mode, where the fuel injected into a starting cylinder (14) is ignited and a torque is exerted on the crankshaft by the electrical machine throughout the starting process.

IPC 1-7  
**F02N 17/00**

IPC 8 full level  
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CPC (source: EP KR US)  
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Cited by  
DE102018212943A1; DE10360795A1; DE10360795B4

Designated contracting state (EPC)  
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DOCDB simple family (publication)  
**DE 19741294 A1 19990325**; BR 9806180 A 19991019; DE 59807064 D1 20030306; EP 0939859 A1 19990908; EP 0939859 B1 20030129; JP 2001506727 A 20010522; JP 4152449 B2 20080917; KR 100739353 B1 20070718; KR 20000068870 A 20001125; US 6202614 B1 20010320; WO 9915787 A1 19990401

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