

Title (en)

METHOD AND DEVICE FOR OPERATING THE DRIVE TO INTERNAL-COMBUSTION ENGINE AUXILIARIES

Title (de)

VERFAHREN UND VORRICHTUNG ZUM BETREIBEN EINES AN EINER BRENNKRAFTMASCHINE ANGEORDNETEN NEBENAGGREGATEANTRIEBES

Title (fr)

PROCEDE ET DISPOSITIF DE COMMANDE DE L'ENTRAINEMENT DE GROUPE AUXILIAIRES DISPOSE SUR UN MOTEUR A COMBUSTION INTERNE

Publication

**EP 0576639 B1 19960320 (DE)**

Application

**EP 92924692 A 19921208**

Priority

- DE 4200918 A 19920116
- EP 9202837 W 19921208

Abstract (en)

[origin: DE4200918C1] The invention concerns a differential gear (3) driven by the crankshaft (1) of an internal-combustion engine and which distributes the drive torque as a function of the number of teeth on the differential gear (3) to engine auxiliaries (7, 11) driven by this differential gear (3). An exciter current (IE) fed to an auxiliary (three-phase alternator 7) is regulated as a function of load and/or cooling-water signals (SL, ST), and the drive torque (ML) to the alternator (7) varied accordingly. In order to maintain a constant alternator voltage (UB) the rotational speed (NL) of the alternator (7) is varied as is, by means of the differential gear (3), the rotational speed of another auxiliary (water pump 11). The cooling capacity of the engine can thus be controlled as a function of the cooling or load requirements.

IPC 1-7

**H02P 9/06**; **F02B 67/04**; **F01P 7/14**

IPC 8 full level

**F01P 5/12** (2006.01); **F01P 7/14** (2006.01); **F01P 7/16** (2006.01); **F02B 67/04** (2006.01); **H02P 9/04** (2006.01); **H02P 9/06** (2006.01)

CPC (source: EP US)

**F01P 5/12** (2013.01 - EP US); **F01P 7/164** (2013.01 - EP US); **F02B 67/04** (2013.01 - EP US); **F01P 2025/08** (2013.01 - EP US); **F01P 2025/62** (2013.01 - EP US)

Designated contracting state (EPC)

DE FR GB IT SE

DOCDB simple family (publication)

**DE 4200918 C1 19930311**; DE 59205774 D1 19960425; EP 0576639 A1 19940105; EP 0576639 B1 19960320; JP H06506582 A 19940721; US 5429082 A 19950704; WO 9314560 A1 19930722

DOCDB simple family (application)

**DE 4200918 A 19920116**; DE 59205774 T 19921208; EP 9202837 W 19921208; EP 92924692 A 19921208; JP 51209692 A 19921208; US 11912093 A 19930916