

Title (en)

Method and apparatus for driving starters of internal combustion engines

Title (de)

Verfahren und Vorrichtung zum Ansteuern von Startern an Verbrennungskraftmaschinen

Title (fr)

Procédé et dispositif de pilotage des démarreurs pour moteurs a combustion interne

Publication

EP 1369569 A3 20050608 (DE)

Application

EP 03001699 A 20030127

Priority

DE 10222162 A 20020517

Abstract (en)

[origin: EP1369569A2] The method involves generating drive signals for a starter motor and relay by sending the start demand to an input functional block (50), processing signals from this block in a processing block (60) with a diagnostic functional component (61), a safety function (62) and a process controller (66) and generating mutually decoupled drive signals (71,72) in an output block (70) with clock-controlled end stages (69). AN Independent claim is also included for the following: (a) a device for implementing the inventive method.

IPC 1-7

F02D 41/06; F02N 11/06; F02N 11/08

IPC 8 full level

F02N 11/08 (2006.01); **F02N 11/10** (2006.01); **F02N 15/06** (2006.01)

CPC (source: EP)

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Citation (search report)

- [A] US 6148781 A 20001121 - BOEGNER KARLHEINZ [DE], et al
- [A] DE 19844454 A1 20000413 - SIEMENS AG [DE]

Cited by

CN103228906A; DE102010005683A1; DE102011076914A1; WO2012069293A3; DE102009029106A1; WO2011026772A2; US9291140B2; DE102008054706A1; DE102008054720A1; WO2010072435A2

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