

Title (en)

Starter with electronic engine start detection

Title (de)

Anlasser mit elektronischer Motorstartererkennung

Title (fr)

Démarreur muni d'un détecteur électronique du démarrage du moteur

Publication

**EP 0849467 B1 20030514 (DE)**

Application

**EP 97121807 A 19971211**

Priority

DE 19652722 A 19961218

Abstract (en)

[origin: EP0849467A1] The electric starter motor is fitted with a current monitoring circuit which monitors the periodic variations in current due to the compression and decompression parts of the engine cycle. When the engine fires and starts to provide torque, the pattern of current variations changes. The control system then switches off the starter current. The control circuit has a modular design with three connections which can be clipped into the conventional starter motor circuit.

IPC 1-7

**F02N 11/08**

IPC 8 full level

**F02N 11/08** (2006.01)

CPC (source: EP)

**F02N 11/0848** (2013.01); **F02N 2200/044** (2013.01)

Cited by

EP2317101A1; DE10021154C1; DE102007009872A1; DE10210537A1; FR2838778A1; DE10154724B4; DE10021153A1; DE10021153C2; DE102004029895A1; EP0980975A1; DE19837782A1; DE102004029895B4; US8584642B2

Designated contracting state (EPC)

DE ES FR GB IT

DOCDB simple family (publication)

**EP 0849467 A1 19980624**; **EP 0849467 B1 20030514**; DE 59710081 D1 20030618; ES 2197290 T3 20040101

DOCDB simple family (application)

**EP 97121807 A 19971211**; DE 59710081 T 19971211; ES 97121807 T 19971211