

Title (en)

Enhanced power cut-off control for motor vehicle starter

Title (de)

Verbesserte Abschaltsteuerung für Kraftfahrzeug-Anlasser

Title (fr)

Perfectionnements à la commande de la coupure d'un démarreur de véhicule automobile

Publication

EP 0848160 B1 20020206 (FR)

Application

EP 97402984 A 19971210

Priority

FR 9615275 A 19961212

Abstract (en)

[origin: EP0848160A1] The method involves detecting oscillations in the signal corresponding to the voltage across the starter motor or the current passing through it. The starter motor current is cut when these oscillations cease. Within the signal the successive durations for which the voltage is continuously increasing may be determined. The starter current is cut when one of these periods becomes greater than a given threshold. Distinct values are ascribed to this threshold during the search period from the initial closure of the starter switch. The search period is of a duration chosen to ensure that it covers the possibility that the first and second oscillations at the start of compression are confused.

IPC 1-7

F02N 11/08

IPC 8 full level

F02N 11/08 (2006.01)

CPC (source: EP US)

F02N 11/0848 (2013.01 - EP US); **F02N 2200/044** (2013.01 - EP US)

Cited by

DE10061092B4; DE10147357A1; DE10147357B4; US6681736B2

Designated contracting state (EPC)

DE ES GB IT

DOCDB simple family (publication)

EP 0848160 A1 19980617; EP 0848160 B1 20020206; CN 1089402 C 20020821; CN 1187582 A 19980715; DE 69710304 D1 20020321; DE 69710304 T2 20020822; ES 2171866 T3 20020916; FR 2757219 A1 19980619; FR 2757219 B1 19990305; JP 4276710 B2 20090610; JP H10184503 A 19980714; US 5983850 A 19991116

DOCDB simple family (application)

EP 97402984 A 19971210; CN 97125456 A 19971211; DE 69710304 T 19971210; ES 97402984 T 19971210; FR 9615275 A 19961212; JP 34298297 A 19971212; US 98857797 A 19971211