

Title (en)

Improvements to devices for controlling a contactor for a vehicle starter motor

Title (de)

Verbesserung an Vorrichtungen zum Steuern eines Anlassschützes für einen Kraftfahrzeug

Title (fr)

Perfectionnement aux dispositif pour la commande d'un contacteur de démarreur de véhicule automobile

Publication

EP 0864744 B1 20021211 (FR)

Application

EP 98400553 A 19980310

Priority

FR 9703089 A 19970314

Abstract (en)

[origin: EP0864744A1] The contactor control is applied to a starter motor contactor with a power contact that supplies the electric starter motor and a control winding which controls displacement of the power contact. A microprocessor circuit drives a power transistor which switches the control winding. The microprocessor circuit has the ability to block the power transistor when the fall in voltage (dU) at point at the battery supply potential between two successive instants (T2 and T2+TS) following the closing of the contact switch is less than a given value. The microprocessor circuit has an analog-to-digital converter at the voltage monitoring point.

IPC 1-7

F02N 11/08

IPC 8 full level

F02N 11/08 (2006.01)

CPC (source: EP US)

F02N 11/087 (2013.01 - EP US); **F02N 11/106** (2013.01 - EP US); **F02N 2200/063** (2013.01 - EP US)

Citation (examination)

US 5345901 A 19940913 - SIEGENTHALER DAVID R [US], et al

Cited by

FR2987082A1; WO2013121152A1

Designated contracting state (EPC)

DE ES GB IT

DOCDB simple family (publication)

EP 0864744 A1 19980916; EP 0864744 B1 20021211; DE 69809984 D1 20030123; DE 69809984 T2 20030724; ES 2189104 T3 20030701; FR 2760891 A1 19980918; FR 2760891 B1 19990528; US 6011317 A 20000104

DOCDB simple family (application)

EP 98400553 A 19980310; DE 69809984 T 19980310; ES 98400553 T 19980310; FR 9703089 A 19970314; US 4216998 A 19980313