

Title (en)

ARRANGEMENT FOR PROTECTING RELAY CONTACTS

Publication

EP 0279042 B1 19910807 (DE)

Application

EP 87117879 A 19871203

Priority

DE 3701838 A 19870123

Abstract (en)

[origin: EP0279042A1] In an arrangement for protecting relay contacts, especially on motor vehicles, with a current source, with an electrical consumer, with a first switching device for connecting the electrical consumer to the current source via a resistor, with a second switching device which is designed as a relay for directly connecting the electrical consumer to the current source and with a timed switching device by means of which the first switching device can be activated before the second switching device, the first switching device is designed as a semiconductor component and the resistor as an internal resistance of the circuit path of the semiconductor component, in order, among other things, to simplify the device and reduce costs. <IMAGE>

IPC 1-7

F02N 17/04; F02N 17/047; F02P 19/02

IPC 8 full level

F02N 19/04 (2010.01); **F02P 19/02** (2006.01); **H01H 9/54** (2006.01)

CPC (source: EP)

F02N 19/04 (2013.01); **F02P 19/021** (2013.01); **F02P 19/022** (2013.01); **H01H 9/542** (2013.01)

Designated contracting state (EPC)

ES FR GB SE

DOCDB simple family (publication)

EP 0279042 A1 19880824; EP 0279042 B1 19910807; EP 0279042 B2 19940525; DE 3701838 A1 19880804; DE 3701838 C2 19910814;
ES 2024482 B3 19920301; ES 2024482 T5 19950816

DOCDB simple family (application)

EP 87117879 A 19871203; DE 3701838 A 19870123; ES 87117879 T 19871203