

Title (en)

CIRCUIT FOR CONTROLLING AN ELECTRICALLY OPERATED MOTOR VEHICLE DOOR LOCK OR SIMILAR

Title (de)

SCHALTUNGSANORDNUNG ZUR STEUERUNG EINES ELEKTRISCH BETÄTIGTEN KRAFTFAHRZEUG-TÜRSCHLOSSES O. DGL.

Title (fr)

CIRCUIT POUR COMMANDER UNE SERRURE DE PORTIERE DE VEHICULE A MOTEUR, ACTIONNEE ELECTRIQUEMENT, OU SIMILAIRE

Publication

EP 0920561 A1 19990609 (DE)

Application

EP 98905227 A 19980109

Priority

- DE 9800057 W 19980109
- DE 19711563 A 19970320

Abstract (en)

[origin: DE19711563A1] The invention relates to a circuit for controlling an electrically operated motor vehicle door lock or similar, comprising a latch mechanism (1) and a detent pawl (2) which holds said latch mechanism (1) in a closed position, and an electromotive lock auxiliary drive mechanism (4) which is switched on once said latch mechanism (1) has reached a pre-closed position and then moves said latch mechanism (1) over by motive means into the main closed position. A switch (16) which detects the pre-closed position, especially a latch switch which senses the position of the latch, is also provided. The circuit has an especially simple design since the negative pole (18) of the lock auxiliary drive mechanism (4) is constantly connected to earth or negative potential and the positive pole (19) is switched and connects to either the positive potential of the vehicle electrical system or earth or negative potential, or is open (floated), and since only one switch (16) is provided and the switch (16) lies between earth and a switch connection (20) and effects a connection of said lock auxiliary drive mechanism (4). It is particularly useful if said lock auxiliary drive (4) switches off automatically when said latch mechanism (1) reaches the closed position especially when said latch mechanism reaches the extra travel position which lies just beyond the closed position, i.e. especially when the positive pole (19) of said lock auxiliary drive mechanism (4) is then connected to earth or negative potential or is open. This applies especially when the criterion for disconnecting said lock auxiliary drive mechanism (4) when the closed position is reached, especially when said latch mechanism reaches the extra travel position located just beyond the closed position mechanism is the current consumption of said lock auxiliary drive (4).

IPC 1-7

E05B 47/00; **E05B 65/32**; **E05B 17/00**

IPC 8 full level

B60J 1/17 (2006.01); **E05B 17/00** (2006.01); **E05B 47/00** (2006.01); **E05B 65/32** (2006.01); **E05B 81/20** (2014.01); **E05B 81/66** (2014.01); **E05B 17/22** (2006.01); **E05B 83/16** (2014.01)

CPC (source: EP US)

E05B 81/20 (2013.01 - EP US); **E05B 81/66** (2013.01 - EP US); **E05B 83/16** (2013.01 - EP US)

Citation (search report)

See references of WO 9842939A1

Cited by

WO2017178462A1

Designated contracting state (EPC)

DE FR IT

DOCDB simple family (publication)

DE 19711563 A1 19980924; DE 59810152 D1 20031218; EP 0920561 A1 19990609; EP 0920561 B1 20031112; JP 2000510926 A 20000822; US 6175202 B1 20010116; WO 9842939 A1 19981001

DOCDB simple family (application)

DE 19711563 A 19970320; DE 59810152 T 19980109; DE 9800057 W 19980109; EP 98905227 A 19980109; JP 54464898 A 19980109; US 14728999 A 19990201