

Title (en)  
ELECTRIC CIRCUIT ARRANGEMENT

Title (de)  
ELEKTRISCHE SCHALTUNGSANORDNUNG

Title (fr)  
MONTAGE ELECTRIQUE

Publication  
**EP 1713997 B1 20100915 (DE)**

Application  
**EP 05701384 A 20050209**

Priority  
• EP 2005001274 W 20050209  
• DE 102004007328 A 20040214

Abstract (en)  
[origin: WO2005078223A1] Disclosed is an electric circuit arrangement for influencing a power switching element on the output side associated with an electric motor which is used to adjust a unit provided in a motor vehicle. The aim of the invention is to ensure that the electric motor can work, particularly in a direction of rotation so that the respective vehicle can be opened in the event of failure of a central control device resulting from immersion in water, and to ensure that the safety function can work even without mechanical changeover switches. According to the invention, a switching transistor is provided, wherein the collector emitter path thereof is parallel mounted in relation to the inputs of the power switching element and the base connection thereof is connected to a switching device, which can be actuated manually and which is embodied in the form of a pushbutton switch via a diode, and to a water sensor, which is formed by two closely adjoining electric contacts.

IPC 8 full level  
**E05F 15/16** (2006.01); **G05B 9/02** (2006.01); **H02P 7/28** (2006.01)

CPC (source: EP US)  
**E05F 15/695** (2015.01 - EP US); **E05Y 2201/422** (2013.01 - EP US); **E05Y 2201/434** (2013.01 - EP US); **E05Y 2800/252** (2013.01 - EP US); **E05Y 2800/428** (2013.01 - EP US); **E05Y 2900/55** (2013.01 - EP US)

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**WO 2005078223 A1 20050825**; AT E481546 T1 20101015; CN 1918353 A 20070221; CN 1918353 B 20120627;  
DE 102004007328 A1 20050901; DE 502005010260 D1 20101028; EP 1713997 A1 20061025; EP 1713997 B1 20100915;  
ES 2354478 T3 20110315; JP 2007522988 A 20070816; US 2006284486 A1 20061221; US 7282817 B2 20071016

DOCDB simple family (application)  
**EP 2005001274 W 20050209**; AT 05701384 T 20050209; CN 200580004949 A 20050209; DE 102004007328 A 20040214;  
DE 502005010260 T 20050209; EP 05701384 A 20050209; ES 05701384 T 20050209; JP 2006552531 A 20050209; US 48895506 A 20060719