

Title (en)

CIRCUIT ARRANGEMENT FOR ACTUATING A BISTABLE RELAY

Title (de)

SCHALTUNGSANORDNUNG ZUM ANSTEUERN EINES BISTABILEN RELAIS

Title (fr)

AGENCEMENT DE CIRCUIT D'EXCITATION D'UN RELAIS BISTABLE

Publication

**EP 2891168 B1 20190731 (DE)**

Application

**EP 13753170 A 20130821**

Priority

- DE 102012107953 A 20120829
- EP 2013067378 W 20130821

Abstract (en)

[origin: WO2014033029A1] The invention relates to a circuit arrangement for actuating a bistable relay. A relay coil (1, 1a, 1b) of the bistable relay is arranged in a series circuit with a capacitor (2). The series circuit is connected to a supply voltage (V+) via a first semiconductor switch (5) in order to switch on the bistable relay, and the series circuit is short-circuited by means of a second semiconductor switch (7) in order to switch off the bistable relay. The circuit arrangement is characterized in that at least one voltage regulator (100, 200) is provided which regulates the voltage applied to the relay coil (1, 1a, 1b) of the bistable relay such that the voltage does not exceed a specified voltage.

IPC 8 full level

**H01H 47/22** (2006.01); **H01H 47/32** (2006.01)

CPC (source: EP US)

**H01H 47/002** (2013.01 - US); **H01H 47/226** (2013.01 - EP US); **H01H 47/325** (2013.01 - US); **H01H 50/44** (2013.01 - US); **H01H 50/64** (2013.01 - US); **H01H 47/32** (2013.01 - EP US)

Citation (examination)

US 4533972 A 19850806 - OHASHI TAKEO [JP]

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

**DE 102012107953 B3 20140213**; EP 2891168 A1 20150708; EP 2891168 B1 20190731; US 2015162154 A1 20150611; US 9870889 B2 20180116; WO 2014033029 A1 20140306

DOCDB simple family (application)

**DE 102012107953 A 20120829**; EP 13753170 A 20130821; EP 2013067378 W 20130821; US 201514625725 A 20150219