

Title (en)
CONTROLLABLE APPARATUS FOR CUTTING AN ELECTRICAL CURRENT AND ELECTRICAL ASSEMBLY COMPRISING THIS APPARATUS

Title (de)
STEUERBARES GERÄT ZUR UNTERBRECHUNG EINES ELEKTRISCHEN STROMS, UND ELEKTRISCHE ANLAGE, DIE EIN SOLCHES GERÄT UMFASST

Title (fr)
APPAREIL COMMANDABLE DE COUPURE D'UN COURANT ÉLECTRIQUE ET ENSEMBLE ÉLECTRIQUE COMPRENANT CET APPAREIL

Publication
EP 3435396 B1 20200401 (FR)

Application
EP 18185578 A 20180725

Priority
FR 1757100 A 20170726

Abstract (en)
[origin: US2019035584A1] A controllable electric current switchgear includes a bistable relay including separable electrical contacts and an excitation coil for switching the contacts between open and closed states when the coil receives an amount of energy that is higher than a predefined excitation energy threshold with an electrical power that is higher than a predefined power threshold; and a control circuit including a power stage and a logic stage for triggering the switching of the relay. The power stage includes a power converter, a first set of capacitors connected at the input of the converter and a second set of capacitors connected at the output of the converter, the nominal power of the converter being strictly lower than the power threshold, the sets of capacitors being capable of storing an amount of energy that is higher than or equal to 50% of the excitation energy threshold.

IPC 8 full level
H01H 47/02 (2006.01); **H01H 47/22** (2006.01); **H01H 47/32** (2006.01)

CPC (source: CN EP US)
H01H 47/02 (2013.01 - CN EP US); **H01H 47/22** (2013.01 - EP US); **H01H 47/226** (2013.01 - CN US); **H01H 47/325** (2013.01 - CN EP US); **H01H 50/54** (2013.01 - US); **H01H 2047/025** (2013.01 - CN)

Cited by
US2020411267A1; US11587751B2; FR3114681A1

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)
EP 3435396 A1 20190130; **EP 3435396 B1 20200401**; CN 109308977 A 20190205; CN 109308977 B 20220805; ES 2798754 T3 20201214; FR 3069698 A1 20190201; FR 3069698 B1 20190816; US 10825627 B2 20201103; US 2019035584 A1 20190131

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EP 18185578 A 20180725; CN 201810832531 A 20180726; ES 18185578 T 20180725; FR 1757100 A 20170726; US 201816043828 A 20180724