

Title (en)

Electrical protection device comprising at least one cut-off module controlled by a control device with an electromagnetic coil

Title (de)

Elektrisches Schutzgerät, das mindestens ein Unterbrechungsmodul umfasst, das von einer Steuervorrichtung mit einer elektromagnetischen Spule gesteuert wird.

Title (fr)

Appareil de protection électrique comportant au moins un module de coupure commande par un dispositif de commande à bobine électromagnétique.

Publication

EP 2541578 B1 20170315 (FR)

Application

EP 12354033 A 20120524

Priority

FR 1101975 A 20110627

Abstract (en)

[origin: EP2541578A1] The electric protection apparatus has remote control device comprising an electromagnetic coil (18) designed to act on the contacts (13,15) to bring opening or closing of the contacts. The coils (12,21) of switching modules are substantially in the plane parallel to the plane of mounting support. A plate (22) made of ferromagnetic material is dimensioned to sensibly completely covers the coil of control device. The plate performs magnetic guiding of the arc as soon as separation of the contacts takes place so as to increase the propulsion component of the Laplacian force acting on the arc.

IPC 8 full level

H01H 73/18 (2006.01); **H01H 9/34** (2006.01); **H01H 71/02** (2006.01); **H01H 71/10** (2006.01)

CPC (source: EP US)

H01H 9/34 (2013.01 - EP US); **H01H 71/0271** (2013.01 - EP US); **H01H 71/1045** (2013.01 - EP US); **H01H 73/18** (2013.01 - EP US); **H01H 2009/305** (2013.01 - EP US); **H01H 2071/0278** (2013.01 - EP US)

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 2541578 A1 20130102; EP 2541578 B1 20170315; BR 102012015807 A2 20150407; BR 102012015807 B1 20210406; CN 102856130 A 20130102; CN 102856130 B 20170811; ES 2626417 T3 20170725; FR 2977066 A1 20121228; FR 2977066 B1 20161230; RU 2012126657 A 20140110; RU 2596615 C2 20160910; US 2012326814 A1 20121227; US 8902027 B2 20141202; ZA 201204093 B 20130227

DOCDB simple family (application)

EP 12354033 A 20120524; BR 102012015807 A 20120626; CN 201210216197 A 20120626; ES 12354033 T 20120524; FR 1101975 A 20110627; RU 2012126657 A 20120626; US 201213534860 A 20120627; ZA 201204093 A 20120605