

Title (en)
HIGH-VOLTAGE SWITCHING UNIT

Title (de)
HOCHSPANNUNGSSCHALTVORRICHTUNG

Title (fr)
DISPOSITIF DE COMMUTATION HAUTE TENSION

Publication
EP 2430645 A1 20120321 (DE)

Application
EP 11727691 A 20110621

Priority
• EP 2011060379 W 20110621
• DE 202010009448 U 20100623

Abstract (en)
[origin: WO2011161121A1] The invention relates to a high-voltage switching unit for switching electrical contacts (9, 10, 11) of a conductor, comprising an isolating switch element (5, 12, 12a) having a first isolating contact element (5, 12), which can be moved with a component (5) by means of a drive, and at least one second isolating contact element (12a), which can be brought in electrical contact with the first isolating contact element (5, 12) by moving same, and further comprising a load switch element (14) having a first and a second load contact element (13, 15), which are disposed in a medium for quenching and/or preventing a switch arc, wherein the first isolating contact element (5, 12) is designed such that, during a movement thereof triggered by the drive, it effects a movement of the first load contact element (13) for closing or opening the load switch element (14) relative to the second load contact element (15). The high-voltage switching unit is characterized in that the first isolating contact element (5, 12) comprises a metal rail (5), which is disposed on a rotatable disk connected to the drive by means of a rotational axis, and a first sliding contact (12), which is connected to a contact conductor (9, 10) and can engage on the metal rail (5), or is disconnected therefrom, depending on the rotational angle position of the disk (3). Such a high-voltage switching device can be switched particularly easily, and a plurality of such high-voltage switching devices can be switched by a common drive.

IPC 8 full level
H01H 33/12 (2006.01); **H01H 33/666** (2006.01); **H01H 3/42** (2006.01); **H01H 31/00** (2006.01)

CPC (source: EP)
H01H 33/122 (2013.01); **H01H 33/6661** (2013.01); **H01H 3/42** (2013.01); **H01H 31/003** (2013.01)

Citation (search report)
See references of WO 2011161121A1

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 202010009448 U1 20100909; CN 102947914 A 20130227; EP 2430645 A1 20120321; EP 2430645 B1 20150429;
WO 2011161121 A1 20111229

DOCDB simple family (application)
DE 202010009448 U 20100623; CN 201180030734 A 20110621; EP 11727691 A 20110621; EP 2011060379 W 20110621