

Title (en)  
ELECTRICAL SWITCHING DEVICE

Title (de)  
ELEKTRISCHE SCHALTVORRICHTUNG

Title (fr)  
DISPOSITIF DE COMMUTATION ÉLECTRIQUE

Publication  
**EP 4273900 A1 20231108 (EN)**

Application  
**EP 22171749 A 20220505**

Priority  
EP 22171749 A 20220505

Abstract (en)  
An electrical switching device (29) comprises a main contact arrangement comprising a fixed contact (32) and a movable contact (30) moveable along a movement path between a closed position in which it is in contact with the fixed contact (32) and a fully open position in which it is separated from the fixed contact (32), an arc splitting structure comprising a stack of splitter plates and at least one arc rotating coil, where one of the splitter plates at the bottom of the stack is a first outermost splitter plate and another of the splitter plates at the top of the stack is a second outermost splitter plate, an arc quenching circuit (44), an arc runner (34) and a charge connection plate (36), wherein the first outermost splitter plate is mechanically and electrically connected to the fixed contact (32), the arc runner (34) has a first end (34a) electrically and mechanically connected to the second outermost splitter plate (14) and a second end (34b) located adjacent the fixed contact (32) along the movement path and the charge connection plate (36) is located after the arc runner along the movement path and is electrically connected to the arc quenching circuit (44).

IPC 8 full level  
**H01H 9/36** (2006.01); **H01H 9/44** (2006.01); **H01H 9/46** (2006.01); **H01H 73/18** (2006.01)

CPC (source: EP)  
**H01H 9/36** (2013.01); **H01H 9/44** (2013.01); **H01H 9/46** (2013.01); **H01H 73/18** (2013.01); **H01H 2009/367** (2013.01)

Citation (search report)  
• [AD] WO 2020127401 A1 20200625 - ABB SCHWEIZ AG [CH]  
• [A] US 1932061 A 19331024 - BAKER BENJAMIN P  
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• [A] US 4079219 A 19780314 - WESTON DONALD E  
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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

Designated extension state (EPC)  
BA ME

Designated validation state (EPC)  
KH MA MD TN

DOCDB simple family (publication)  
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