

Title (en)  
CIRCUIT BREAKER WITH METALLIC ENCLOSURE

Title (de)  
TRENNSCHALTER MIT METALLISCHEM GEHÄUSE

Title (fr)  
DISJONCTEUR AVEC ENCEINTE METALLIQUE

Publication  
**EP 3726554 A1 20201021 (EN)**

Application  
**EP 19169674 A 20190416**

Priority  
EP 19169674 A 20190416

Abstract (en)  
A circuit breaker with metallic enclosure (1) comprises a chamber (3). The chamber comprises a first compartment (31) and a second compartment (32) enclosing an interior volume. The first and second compartments are electrically insulated from each other. A switching actuator (34) is displaceably provided inside at least one of the compartments (31, 32) and configured and adapted to selectively provide electric connection between the compartments. A sealed tank (2) encloses the chamber and is electrically insulated from the chamber, whereby an exterior volume (211) is provided between a wall of the tank and the chamber. The tank and the compartments contain a dielectric gas, and the interior (311, 321) of each compartment of the chamber is fluidly connected to the exterior volume (211) by a flow path having an overall flow cross section. The flow path between the interior volume of each of the compartments and the exterior volume is subdivided into a multitude of ducts, each duct having a partial flow cross section, a hydraulic diameter and a length, wherein the length of each duct is at least twice the hydraulic diameter of the duct.

IPC 8 full level  
**H01H 33/74** (2006.01); **H01H 33/56** (2006.01)

CPC (source: EP)  
**H01H 33/56** (2013.01); **H01H 33/74** (2013.01)

Citation (search report)  
• [IY] WO 2017162533 A1 20170928 - ABB SCHWEIZ AG [CH]  
• [Y] US 4328403 A 19820504 - FRINK RUSSELL E, et al  
• [Y] EP 2120244 A1 20091118 - ABB TECHNOLOGY AG [CH]  
• [Y] DE 2947957 A1 19801204 - SPRECHER & SCHUH AG

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

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