

Title (en)

NOZZLE FOR A CIRCUIT BREAKER, CIRCUIT BREAKER, AND METHOD OF 3D PRINTING A NOZZLE FOR A CIRCUIT BREAKER

Title (de)

DÜSE FÜR EINEN LEISTUNGSSCHALTER, LEISTUNGSSCHALTER UND VERFAHREN ZUM 3D-DRUCKEN EINER DÜSE FÜR EINEN LEISTUNGSSCHALTER

Title (fr)

BUSE POUR UN DISJONCTEUR, DISJONCTEUR ET PROCÉDÉ D'IMPRESSION 3D D'UNE BUSE D'UN DISJONCTEUR

Publication

EP 3739609 A1 20201118 (EN)

Application

EP 19174447 A 20190514

Priority

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Abstract (en)

A nozzle (100) for a circuit breaker (1000), the circuit breaker (1000) having at least two contact elements (210, 220) and a gas reservoir (310) is provided. The nozzle (100) is manufactured by 3D printing as a single piece and is configured to surround the at least two contact elements (210, 220). The nozzle includes an arcing zone (330) formed along a central axis (CA) of the nozzle (100), and a gas channel (320) formed within the nozzle (100), the gas channel (320) configured to fluidly connect the gas reservoir (310) and the arcing zone (330). At least one of the contact elements (210, 220) is configured to be movable.

IPC 8 full level

H01H 11/00 (2006.01); **H01H 33/70** (2006.01); **H01H 33/90** (2006.01)

CPC (source: EP)

H01H 11/00 (2013.01); **H01H 33/7023** (2013.01); **H01H 33/703** (2013.01); **H01H 33/901** (2013.01)

Citation (applicant)

DE 202017103766 U1 20170718 - ABB SCHWEIZ AG [CH]

Citation (search report)

- [Y] EP 2827353 A1 20150121 - ABB TECHNOLOGY AG [CH]
- [YD] DE 202017103766 U1 20170718 - ABB SCHWEIZ AG [CH]
- [YA] WO 2018001798 A1 20180104 - GENERAL ELECTRIC TECHNOLOGY GMBH [CH]
- [Y] JP 2016219317 A 20161222 - TOSHIBA CORP

Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

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DOCDB simple family (application)

EP 19174447 A 20190514; EP 2020062838 W 20200508; JP 2021568134 A 20200508