

Title (en)
GAS CIRCUIT BREAKER

Title (de)
GASSCHUTZSCHALTER

Title (fr)
DISJONCTEUR À GAZ

Publication
EP 3872829 A4 20211222 (EN)

Application
EP 19877047 A 20190924

Priority
• JP 2018200097 A 20181024
• JP 2019037360 W 20190924

Abstract (en)
[origin: EP3872829A1] A gas circuit breaker (100) includes: a stationary electrode (1); a movable electrode (2) movable along an axis line of the stationary electrode (1) to be connectable to and separable from the stationary electrode (1); a movable housing (3) interlocked with the movable electrode (2); a piston (4) forming a mechanical puffer chamber (Mp) with the movable housing (3); a cylinder (8) that is interlocked with the movable electrode (2) and is positioned in series with the movable housing (3) along the axis line; and a nozzle (7) forming a first thermal puffer chamber (Tp) with the cylinder (8). The movable housing (3) includes a first suck-out port (Mnu) through which an insulating gas is taken into the mechanical puffer chamber (Mp) and is ejected out of the mechanical puffer chamber (Mp). The nozzle (7) includes an intake port (7n) through which the insulating gas is taken into the first thermal puffer chamber (Tp) and a squirt hole (7u) through which the insulating gas is squirted out of the first thermal puffer chamber (Tp) toward a position between the stationary electrode (1) and the movable electrode (2).

IPC 8 full level
H01H 33/915 (2006.01)

CPC (source: EP)
H01H 33/7023 (2013.01); **H01H 33/703** (2013.01); **H01H 33/7076** (2013.01); **H01H 33/76** (2013.01); **H01H 33/90** (2013.01); **H01H 2033/888** (2013.01); **H01H 2033/908** (2013.01)

Citation (search report)
• [XY] EP 0100749 A1 19840215 - FUJI ELECTRIC CO LTD [JP], et al
• [YA] US 2013161289 A1 20130627 - HORINOUCI KATSUHIKO [JP], et al
• [YA] DE 2710868 A1 19780914 - LICENTIA GMBH
• [YA] US 3946180 A 19760323 - VOTTA GERALD A, et al
• See also references of WO 2020084984A1

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

DOCDB simple family (publication)
EP 3872829 A1 20210901; **EP 3872829 A4 20211222**; **EP 3872829 B1 20240710**; JP 6961105 B2 20211105; JP WO2020084984 A1 20210430; WO 2020084984 A1 20200430

DOCDB simple family (application)
EP 19877047 A 20190924; JP 2019037360 W 20190924; JP 2020552997 A 20190924