

Title (en)
GAS-INSULATED SWITCHING DEVICE

Title (de)
GASISOLIERTE SCHALTVORRICHTUNG

Title (fr)
DISPOSITIF DE COMMUTATION À ISOLATION GAZEUSE

Publication
EP 4277056 A1 20231115 (EN)

Application
EP 21917457 A 20210107

Priority
JP 2021000290 W 20210107

Abstract (en)
The present invention has such a configuration that: a fixed-side terminal (1) is provided with an electric field relaxing shield (12d) at a portion opposite to a movable-side terminal (2); an electric field relaxing shield unit (12) is capable of moving toward the movable-side terminal (2); and functions are separated such that an energization function is performed by the fixed-side terminal (1) and a function for relaxing an electric field between the terminals is performed by the electric field relaxing shield unit (12). When the fixed-side terminal (1) and the movable-side terminal (2) are relatively close to each other, the electric field of the blocking electrode (8) is relaxed and a restrike due to a recovery voltage rising when a circuit is opened can be restrained. Thus, a speed for driving the blocking electrode (8) can be lowered.

IPC 8 full level
H02B 13/035 (2006.01)

CPC (source: EP)
H01H 33/122 (2013.01)

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)
EP 4277056 A1 20231115; EP 4277056 A4 20240214; JP 7051011 B1 20220408; JP WO2022149230 A1 20220714; TW 202228350 A 20220716; TW I797809 B 20230401; WO 2022149230 A1 20220714

DOCDB simple family (application)
EP 21917457 A 20210107; JP 2021000290 W 20210107; JP 2021525578 A 20210107; TW 110140874 A 20211103