

Title (en)

GAS-INSULATED HIGH-VOLTAGE SWITCH FOR INTERRUPTION OF LARGE CURRENTS

Title (de)

GASISOLIERTER HOCHSPANNUNGSSCHALTER ZUM UNTERBRECHEN GROSSER STRÖME

Title (fr)

INTERRUPTEUR À HAUTE TENSION ISOLÉ PAR GAZ SERVANT À LA COUPURE DE COURANTS DE FORTE INTENSITÉ

Publication

EP 2619779 A1 20130731 (DE)

Application

EP 11752205 A 20110901

Priority

- EP 10179319 A 20100924
- EP 2011065094 W 20110901
- EP 11752205 A 20110901

Abstract (en)

[origin: WO2012038227A1] The switch is used for interruption of large currents and contains a housing (10) filled with insulating gas, a contact arrangement which is arranged in the housing (10) and has two switching pieces (20, 30), which can move relative to one another along an axis (A) and each have a rated current contact (22, 32) and an arcing contact (21, 31) as well as containing a drive (D), which acts on a first (10) of the two switching pieces. The switch furthermore contains an apparatus (M), which is used for detection and indication of the contact wear, caused by the arc effect, of the two arcing contacts (21, 31), and has an indication (70) arranged outside the housing (10). In the case of this switch the remaining life, which is governed by the contact wear of the arcing contacts (21, 31), is detected and indicated by simple mechanical means. This is achieved, when the contact arrangement is closed, by the two arcing contacts (21, 31) abutting against one another head-to-head at a respective free end, forming an abutment point (S), by the arcing contact (31) of the second switching piece (30) being mounted such that it can be moved axially against the influence of a preloaded spring (33) and being fitted with an axially aligned operating member (50) at the end thereof averted from the abutment point (S), and by the detection and indication apparatus (M) having a transmission (60), which is passed in a gas-tight manner through the housing (10) and has a drive element (63) which is coupled to the operating member (50).

IPC 8 full level

H01H 1/00 (2006.01); **H01H 33/88** (2006.01)

CPC (source: EP US)

H01H 1/0015 (2013.01 - EP US); **H01H 33/027** (2013.01 - US); **H01H 33/88** (2013.01 - EP US); **H01H 2071/044** (2013.01 - EP US)

Citation (search report)

See references of WO 2012038227A1

Cited by

CN103247870A

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

DOCDB simple family (publication)

WO 2012038227 A1 20120329; CN 103119677 A 20130522; CN 103119677 B 20160615; EP 2619779 A1 20130731; EP 2619779 B1 20140319; US 2013213936 A1 20130822; US 9177740 B2 20151103

DOCDB simple family (application)

EP 2011065094 W 20110901; CN 201180045865 A 20110901; EP 11752205 A 20110901; US 201313849686 A 20130325