

Title (en)
High-voltage circuit breaker

Title (de)
Hochspannungsschutzschalter

Title (fr)
Disjoncteur haute tension

Publication
EP 2369608 A1 20110928 (EN)

Application
EP 10157975 A 20100326

Priority
EP 10157975 A 20100326

Abstract (en)
A gas-insulated high-voltage circuit breaker comprises in coaxial arrangement a contact assembly with two contact members (20, 30), an insulating nozzle (40) which is attached to a first (20) of the two contact members (20, 30) and an axially movable annular shield (70) surrounding the insulating nozzle (40). In order to achieve a high availability of the circuit-breaker and to improve its switching performance a control device (80) links the movable annular shield (70) with the first contact member (20). During an opening operation the control device (80) forces the annular shield (70) to move together with the first contact member (20) into the fully open position when the annular shield (70) protrudes over an end of the first contact member (20) facing the second contact member (30). During a closing operation the control device (80) forces the annular shield (70) to move together with the first contact member (20) into the fully closed position when the first contact member (20) protrudes over an end of the annular shield (70) facing the second contact member (30).

IPC 8 full level
H01H 33/24 (2006.01)

CPC (source: EP)
H01H 33/245 (2013.01)

Citation (applicant)
• US 6177643 B1 20010123 - MARIN HEINER [DE], et al
• EP 0696040 A1 19960207 - ABB MANAGEMENT AG [CH]
• DE 4103119 A1 19920806 - SIEMENS AG [DE]

Citation (search report)
• [X] EP 0696040 A1 19960207 - ABB MANAGEMENT AG [CH]
• [AD] US 6177643 B1 20010123 - MARIN HEINER [DE], et al
• [A] DE 3237146 A1 19840301 - BBC BROWN BOVERI & CIE [CH]
• [X] DE 4103119 A1 19920806 - SIEMENS AG [DE]
• [A] EP 0744759 A1 19961127 - SIEMENS AG [DE]

Cited by
CN114724892A; FR2982069A1; CN114730668A; WO2013060820A1; US9524836B2; EP2593954B1

Designated contracting state (EPC)
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 SE SI SK SM TR

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