

Title (en)

Drive mechanism and method for opening/closing of electric switchgear

Title (de)

Antriebsmechanismus und Schaltverfahren für ein Schaltgerät

Title (fr)

Mécanisme de commande und procédé de commutation pour un appareil de commutation

Publication

**EP 1744338 A1 20070117 (EN)**

Application

**EP 05106394 A 20050713**

Priority

EP 05106394 A 20050713

Abstract (en)

Electrical switchgear, e.g. circuit breaker, needs to perform switching operations in very short time in order to quickly react on fault conditions e.g. by opening the line the switchgear is connected to. The moveable contact of such switchgear is driven by a drive mechanism which must be able to provide enough energy in short time to accelerate the moveable masses of the switchgear and drive mechanism in such short times. The inventive drive mechanism provides an electric motor (12) as source of energy and an additional source of energy, which supports the electric motor (12) in driving the moveable contact (6) at least during part of the switching motion.

IPC 8 full level

**H01H 33/36** (2006.01); **H01H 33/40** (2006.01)

CPC (source: EP)

**H01H 33/36** (2013.01); **H01H 33/40** (2013.01); **H01H 3/30** (2013.01)

Citation (applicant)

- EP 1080479 A1 20010307 - ABB ADDA S P A [IT]
- EP 1092227 A1 20010418 - ENERGYLINE SYSTEMS INC [US]
- EP 1211706 A1 20020605 - SCHNEIDER ELECTRIC HIGH VOLTAG [FR]

Citation (search report)

- [E] EP 1583119 A2 20051005 - AREVA T & D AG [CH]
- [E] WO 2005076303 A1 20050818 - AREVA T & D SA [FR], et al
- [X] US 2003071522 A1 20030417 - BARANOWSKI JOHN FRANCIS [US], et al
- [X] DE 656480 C 19380207 - SIEGMUND BAUER DIPL ING
- [A] DE 912963 C 19540608 - SACHSENWERK LICHT & KRAFT AG
- [A] US 2004179318 A1 20040916 - HASHIMOTO HIROAKI [JP], et al
- [A] US 5151567 A 19920929 - THURIES EDMOND [FR]

Cited by

DE102019112710A1; US9899177B2; US11894204B2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

**EP 1744338 A1 20070117; EP 1744338 B1 20100331**; AT E463039 T1 20100415; DE 602005020268 D1 20100512

DOCDB simple family (application)

**EP 05106394 A 20050713**; AT 05106394 T 20050713; DE 602005020268 T 20050713