

Title (en)
OPERATING UNIT FOR SWITCHGEAR

Title (de)
BETRIEBSEINHEIT FÜR EINE SCHALTVORRICHTUNG

Title (fr)
UNITE DE FONCTIONNEMENT POUR UN APPAREILLAGE DE COMMUTATION

Publication
EP 1662532 A4 20070530 (EN)

Application
EP 03768387 A 20031226

Priority
• JP 0317084 W 20031226
• JP 2003204602 A 20030731

Abstract (en)
[origin: EP1662532A1] Disclosed is an operating mechanism capable of achieving enhanced accuracy in a stop position of a switch in motor operation and in a stop position of the switch (in pulling out position of a manual handle) in manual operation. The operating mechanism comprises a grooved cam shaft 5 having a cylindrical surface formed with a groove 10 engaged with a roller 13. The grooved cam shaft 5 is designed to be rotated so as to drive the roller 13 to thereby rotate an output shaft 11, and the groove 10 is configured such that an axial displacement rate thereof relative to a rotation of the grooved cam shaft 5 is minimized around a position corresponding to each stop position of the switch to prevent the output shaft 11 from being rotated even if the grooved cam shaft 5 is rotated.

IPC 8 full level
H01H 33/42 (2006.01); **H01H 3/26** (2006.01); **H01H 3/40** (2006.01); **H01H 3/42** (2006.01); **H01H 33/28** (2006.01); **H01H 33/36** (2006.01)

CPC (source: EP KR)
H01H 3/26 (2013.01 - EP); **H01H 3/3047** (2013.01 - EP); **H01H 3/40** (2013.01 - EP); **H01H 3/42** (2013.01 - EP); **H01H 33/28** (2013.01 - KR); **H01H 33/42** (2013.01 - KR)

Citation (search report)
• [XA] FR 1206991 A 19600212 - HAZEMEIJER CO
• [X] DE 893684 C 19531019 - SACHSENWERK LICHT & KRAFT AG
• See references of WO 2005013304A1

Cited by
KR20140047090A; EP2028670A3; US10888317B2; WO2013013775A3; WO2015042378A3; US10709452B2; US11446036B2; US12029427B2

Designated contracting state (EPC)
DE FR

DOCDB simple family (publication)
EP 1662532 A1 20060531; **EP 1662532 A4 20070530**; **EP 1662532 B1 20090225**; CN 100380551 C 20080409; CN 1802721 A 20060712; DE 60326399 D1 20090409; JP 2005050613 A 20050224; JP 4262012 B2 20090513; KR 100968918 B1 20100714; KR 20060122807 A 20061130; TW 200504777 A 20050201; TW I256658 B 20060611; WO 2005013304 A1 20050210

DOCDB simple family (application)
EP 03768387 A 20031226; CN 200380110391 A 20031226; DE 60326399 T 20031226; JP 0317084 W 20031226; JP 2003204602 A 20030731; KR 20067001471 A 20031226; TW 92137693 A 20031231