

Title (en)

LOCKING DEVICE FOR A DRIVE UNIT OF A THREE-POSITION DRIVE MECHANISM FOR A CONNECTION DEVICE OF SWITCHING ASSEMBLY

Title (de)

VERRIEGELUNGSVORRICHTUNG FÜR EINE ANTRIEBSEINHEIT EINES DREISTELLUNGSANTRIEBES FÜR EIN SCHALTGERÄT EINER SCHALTANLAGE

Title (fr)

DISPOSITIF DE VERROUILLAGE POUR UNE UNITÉ D'ENTRAÎNEMENT D'UN MÉCANISME D'ENTRAÎNEMENT À TROIS POSITIONS DESTINÉ À UN APPAREIL DE CONNEXION D'UNE INSTALLATION DE COMMUTATION

Publication

EP 2737509 B1 20160831 (DE)

Application

EP 12733426 A 20120709

Priority

- EP 11006068 A 20110725
- DE 102012008276 A 20120424
- EP 2012002889 W 20120709
- EP 12733426 A 20120709

Abstract (en)

[origin: WO2013013775A2] The invention relates to a locking device for a drive unit for actuating a connection device of a switching assembly, said locking device comprising a spindle drive for actuating the connection device and a gear mechanism which is coupled therein, and can be driven by a drive motor or a manually controlled device and after a defined number of partial rotations of a drive shaft, connected to the gear mechanism, of the spindle arrangement, the connection device locks such that said connection device is brought into one of three predetermined locking positions and said position is displayed by means of at least one provided position display module. The gear mechanism comprises two mutually engaged toothed wheels (130, 140) having a defined transmission ratio, each toothed wheel (130, 140) interacting respectively with three thus connected locking disks (131, 132, 133, 134, 135, 136) and each locking position can be transmitted to a shift rod (10.1, 10.2, 10.3) arranged therein by respectively one of the three locking elements (210, 220, 230) which engage with pairs of locking disks (131, 132; 133, 134; 135, 136) associated with the locking elements (210, 220, 230), in order to display the shift position on the position display module.

IPC 8 full level

H01H 3/40 (2006.01); **H01H 9/16** (2006.01); **H01H 9/24** (2006.01)

CPC (source: EP)

H01H 3/40 (2013.01); **H01H 9/16** (2013.01); **H01H 9/24** (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

DOCDB simple family (publication)

DE 102012008129 A1 20130131; CN 103688329 A 20140326; CN 103688329 B 20160309; CN 103703532 A 20140402; CN 103703532 B 20161012; DE 102012008276 A1 20130131; EP 2737508 A2 20140604; EP 2737508 B1 20160831; EP 2737509 A2 20140604; EP 2737509 B1 20160831; KR 101941563 B1 20190123; KR 101961702 B1 20190325; KR 20140047090 A 20140421; KR 20140053977 A 20140508; WO 2013013772 A2 20130131; WO 2013013772 A3 20130404; WO 2013013775 A2 20130131; WO 2013013775 A3 20130404

DOCDB simple family (application)

DE 102012008129 A 20120424; CN 201280037394 A 20120709; CN 201280037395 A 20120709; DE 102012008276 A 20120424; EP 12733425 A 20120709; EP 12733426 A 20120709; EP 2012002886 W 20120709; EP 2012002889 W 20120709; KR 20147001745 A 20120709; KR 20147001929 A 20120709