

Title (en)

Mechanical interconnection device for coupling with an hollow body

Title (de)

Mechanisch verbundene Vorrichtung zum Koppeln mit einem Hohlkörper

Title (fr)

Dispositif mécanique interconnectée pour coupler avec un corp creux

Publication

**EP 2299037 A1 20110323 (EN)**

Application

**EP 10176654 A 20100914**

Priority

IT BS20090168 A 20090914

Abstract (en)

A mechanical interconnecting device (1) for coupling with a hollow body (5) exhibiting a cavity (6), in particular for a handle for doors, the device comprising a stem (2) having a prevalent longitudinal development (3) provided with a first end (4) destined to be inserted in and extracted from the cavity (6) along a sliding direction (7) parallel to the longitudinal development axis (3), the first end comprising a seating having an opening (13) at an external surface (14) of the first end, the device further comprising a retaining element (50) having a predetermined perimeter edge (11) and being housed, at least partially, in the seating (12), where the seating (12) is configured to enable displacement of the retaining element (50) at least between a first operating position in which the retaining element (50) is arranged such as to enable sliding of the stem (2) into the cavity (6) along the sliding direction (7) and at least a second operating position in which at least a portion of the edge (11) of the retaining element (50) abuts on an internal surface (6a) of the cavity (6) and a lower end (52) of the retaining element (50) abuts on a bottom surface (21) of the seating (12) in order to prevent extraction of the stem (2) from the hollow element (5).

IPC 8 full level

**E05B 3/04** (2006.01)

CPC (source: EP)

**E05B 3/04** (2013.01)

Citation (search report)

- [A] EP 1683933 A2 20060726 - HOPPE AG [IT]
- [A] US 2005126236 A1 20050616 - ROMERO OSCAR [US]
- [A] FR 1390750 A 19650226 - FT PRODUCTS LTD
- [A] FR 51961 E 19430527 - UNITED CARR FASTENER CORP

Cited by

DE202019102648U1; US2022042346A1

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 SE SI SK SM TR

Designated extension state (EPC)

BA ME RS

DOCDB simple family (publication)

**EP 2299037 A1 20110323**; IT 1395576 B1 20121016; IT BS20090168 A1 20110315

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