

Title (en)

Telescopic lifting device driven by a rack and pinion

Title (de)

Teleskop-Hubvorrichtung mit Zahnrad- und Zahngestänge-Antrieb

Title (fr)

Dispositif télescopique de levage à entraînement par pignon et crémaillère

Publication

**EP 2409943 B1 20140312 (FR)**

Application

**EP 10007497 A 20100720**

Priority

EP 10007497 A 20100720

Abstract (en)

[origin: EP2409943A1] The device has an upper module (12) that is slidingly moved vertically along a lower module (11) by a crank type driving device via a transmission mechanism transmitting movement to a gear and a rack (8). An anti-return locking valve is automatically implemented by frictional coupling with a pinion driving the transmission mechanism during driving a movable element in lifting direction. The rack consists of successive sections assembled against each other by a self-locking assembly.

IPC 8 full level

**B66F 3/00** (2006.01); **B66F 3/02** (2006.01)

CPC (source: EP US)

**B66F 3/00** (2013.01 - EP US); **B66F 3/02** (2013.01 - EP US)

Cited by

CN105382142A; CN105363970A; CN108706492A; CN111317423A; CN105382141A; CN103449328A; CN105382144A; CN105382145A; CN110950257A

Designated contracting state (EPC)

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DOCDB simple family (publication)

**EP 2409943 A1 20120125; EP 2409943 B1 20140312**; ES 2469869 T3 20140620; US 2012181490 A1 20120719; US 8840087 B2 20140923

DOCDB simple family (application)

**EP 10007497 A 20100720**; ES 10007497 T 20100720; US 201213356866 A 20120124