

Title (en)

## APPARATUS FOR SETTING FASTENING ELEMENTS

Title (de)

## VORRICHTUNG ZUM SETZEN VON BEFESTIGUNGSELEMENTEN

Title (fr)

## DISPOSITIF POUR PLACER DES ELEMENTS DE FIXATION

Publication

**EP 1954423 B1 20090812 (DE)**

Application

**EP 06805705 A 20060914**

Priority

- EP 2006008936 W 20060914
- DE 102005054719 A 20051117

Abstract (en)

[origin: US2010147920A1] An apparatus for setting fastening elements (5) has a feed drive (21), by means of which the connecting elements (5) can be fed to an installation position, and a setting device which has a setting tool and by means of which a fastening element (5) arranged in the installation position can be ejected to come into engagement with a support part. Also present is a drive mechanism, which is provided with a drive motor that has a rotatable drive shaft (13) and is coupled via a transmission arrangement (14, 15, 16, 17, 18) to the feed drive (21) and the setting device (30), and with a control arrangement for setting the direction of rotation of the drive shaft (13). In one direction of rotation of the drive shaft (13), the transmission arrangement (14, 15, 16, 17, 18) couples the drive motor (12) to the feed drive (21), and in the other direction of rotation of the drive shaft (13), it couples the drive motor (12) to the setting device. The apparatus is therefore relatively easy to handle.

IPC 8 full level

**B21J 15/04** (2006.01); **B21J 15/26** (2006.01); **B21J 15/32** (2006.01); **B25B 23/04** (2006.01)

CPC (source: EP KR US)

**B21J 15/041** (2013.01 - EP KR US); **B21J 15/26** (2013.01 - EP KR US); **B21J 15/32** (2013.01 - EP US); **B21J 15/323** (2013.01 - EP KR US)

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

DOCDB simple family (publication)

**US 2010147920 A1 20100617; US 8061574 B2 20111122;** AT E439200 T1 20090815; BR PI0618688 A2 20110906; CN 101304827 A 20081112; CN 101304827 B 20100915; DE 102005054719 B3 20070503; DE 502006004550 D1 20090924; EP 1954423 A1 20080813; EP 1954423 B1 20090812; ES 2331630 T3 20100111; HK 1119999 A1 20090320; JP 2009515706 A 20090416; JP 4917612 B2 20120418; KR 101001228 B1 20101217; KR 20080042179 A 20080514; RU 2008123379 A 20100210; RU 2404010 C2 20101120; WO 2007057066 A1 20070524

DOCDB simple family (application)

**US 6326306 A 20060914;** AT 06805705 T 20060914; BR PI0618688 A 20060914; CN 200680041792 A 20060914; DE 102005054719 A 20051117; DE 502006004550 T 20060914; EP 06805705 A 20060914; EP 2006008936 W 20060914; ES 06805705 T 20060914; HK 08113833 A 20081219; JP 2008540469 A 20060914; KR 20087008348 A 20060914; RU 2008123379 A 20060914