

Title (en)  
BLIND RIVET FASTENING DEVICE

Title (de)  
BLINDNIETBEFESTIGUNGSWERKZEUG

Title (fr)  
DISPOSITIF DE FIXATION DE RIVET AVEUGLE

Publication  
**EP 2855046 A4 20160302 (EN)**

Application  
**EP 13797276 A 20130301**

Priority  
• JP 2012124750 A 20120531  
• US 2013028573 W 20130301

Abstract (en)  
[origin: WO2013180769A1] A blind rivet fastening device in which a passage for collecting broken mandrels is provided other than on the axis of the motor. A large collection chamber is provided for broken mandrels. A collection chamber for broken mandrels is provided in front of a brushless electric motor in the axial direction. When the electric motor rotates, power from the electric motor is transmitted to a spindle positioned to the rear of the collection chamber via a second shaft positioned below the collection chamber. When the spindle rotates, a pulling head moves in the axial direction. The axial position of the pulling head is determined by detecting the rotation count of the electric motor. Forward rotation, reverse rotation, and stopping of the electric motor are controlled based on the operation of a trigger and the axial position of the pulling head. Excessive torque is avoided by clutches.

IPC 8 full level  
**B21J 15/10** (2006.01); **B21J 15/04** (2006.01); **B21J 15/26** (2006.01); **B21J 15/32** (2006.01)

CPC (source: CN EP)  
**B21J 15/043** (2013.01 - CN EP); **B21J 15/105** (2013.01 - CN EP); **B21J 15/26** (2013.01 - CN EP); **B21J 15/326** (2013.01 - CN EP)

Citation (search report)  
• [YA] EP 2374558 A2 20111012 - NEWFREY LLC [US]  
• [Y] DE 102007059422 A1 20090618 - BAYERISCHE MOTOREN WERKE AG [DE], et al  
• [Y] CN 101579717 A 20091118 - XINGYI WEN [CN]  
• [Y] JP H0471728 A 19920306 - NIHON RIKI KK  
• [Y] GB 1457326 A 19761201 - TUCKER FASTENERS LTD  
• [A] EP 2246132 A2 20101103 - NEWFREY LLC [US]  
• See references of WO 2013180769A1

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)  
**WO 2013180769 A1 20131205**; CN 104903022 A 20150909; CN 104903022 B 20170901; EP 2855046 A1 20150408; EP 2855046 A4 20160302; EP 2855046 B1 20180425; EP 2855046 B8 20200527; JP 2013248643 A 20131212; JP 5928803 B2 20160601; TW 201350284 A 20131216; TW I581921 B 20170511

DOCDB simple family (application)  
**US 2013028573 W 20130301**; CN 201380040365 A 20130301; EP 13797276 A 20130301; JP 2012124750 A 20120531; TW 102119209 A 20130530