

Title (en)
SETTING DEVICE FOR A BLIND RIVET NUT

Title (de)
SETZVORRICHTUNG FÜR EINE BLINDNIETMUTTER

Title (fr)
DISPOSITIF DE POSE POUR ÉCROU À RIVET AVEUGLE

Publication
EP 4371681 A1 20240522 (EN)

Application
EP 22306688 A 20221117

Priority
EP 22306688 A 20221117

Abstract (en)
The present invention discloses a setting device for a blind rivet element, comprising an axially displaceable pulling mandrel having a work end and a drive end, wherein the work end includes an outer thread to screw-on a blind rivet nut and the drive end has a coupling structure with which a releasable torque-proof connection with a mandrel drive can be established, comprising the mandrel drive with which the pulling mandrel is rotatable by means of the drive end, comprising a linear pulling drive in an operative connection with the pulling mandrel with which a linear deformation displacement of the pulling mandrel in the direction of the drive end is implementable deforming a blind rivet nut, and comprising a hollow-cylindrical mouthpiece, which passes the pulling mandrel and which is linearly displaceable parallel to and independent of the pulling mandrel, so that an installation state of a blind rivet nut on the work end of the pulling mandrel is detectable by means of a linear displacement of the mouthpiece.

IPC 8 full level
B21J 15/04 (2006.01); **B21J 15/10** (2006.01); **B21J 15/12** (2006.01); **B21J 15/20** (2006.01); **B21J 15/24** (2006.01); **B21J 15/26** (2006.01);
B21J 15/28 (2006.01); **B25B 27/00** (2006.01)

CPC (source: EP)
B21J 15/043 (2013.01); **B21J 15/105** (2013.01); **B21J 15/12** (2013.01); **B21J 15/20** (2013.01); **B21J 15/24** (2013.01); **B21J 15/26** (2013.01);
B21J 15/28 (2013.01); **B25B 27/0014** (2013.01)

Citation (applicant)

- EP 3144079 B1 20200527 - VVG BEFESTIGUNGSTECHNIK GMBH & CO KG [DE]
- DE 4406946 A1 19950907 - GESIPA BLINDNIETTECHNIK [DE]
- US 5605070 A 19970225 - WILLE LOTHAR [DE]
- EP 2093024 B1 20100922 - OBER S P A [IT]
- DE 1945820 A1 19700402 - DELALANDE SA
- EP 3144079 A1 20170322 - VVG-BEFESTIGUNGSTECHNIK GMBH & CO KG [DE]
- EP 2093024 A1 20090826 - OBER S P A [IT]

Citation (search report)

- [XAY] US 4074554 A 19780221 - SUMMERLIN FREDERICK ARTHUR
- [XAY] US 4574612 A 19860311 - TANIKAWA OSAMU [JP]
- [Y] EP 2093024 B1 20100922 - OBER S P A [IT]
- [Y] US 6851167 B2 20050208 - HARLOW GARY [US], et al
- [Y] EP 0323113 B1 19940914 - EMHART INC [US]

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 ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
EP 4371681 A1 20240522; WO 2024104644 A1 20240523

DOCDB simple family (application)
EP 22306688 A 20221117; EP 2023076739 W 20230927