

Title (en)

METHOD FOR MANUFACTURING A BOLTING PART, TOOL FOR IMPLEMENTING THE METHOD, AND DEVICE FOR TIGHTENING AND LOOSENING SUCH A BOLTING PART

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES BOLZENTEILS, WERKZEUG ZUR UMSETZUNG DES VERFAHRENS UND VORRICHTUNG ZUM ANZIEHEN UND LÖSEN EINES DERARTIGEN BOLZENTEILS

Title (fr)

PROCEDE DE FABRICATION D'UNE PIECE DE BOULONNERIE, OUTIL POUR LA MISE EN OEUVRE DU PROCEDE, DISPOSITIF DE VISSAGE ET DE DEVISSAGE D'UNE TELLE PIECE DE BOULONNERIE

Publication

EP 2349607 A2 20110803 (FR)

Application

EP 09815468 A 20091023

Priority

- FR 2009052041 W 20091023
- FR 0805908 A 20081024

Abstract (en)

[origin: WO2010046611A2] The invention relates to a method for manufacturing a bolting part, such as a screw (10) or a nut, comprising a head (12) comprising a perimeter (18) including at least one shoulder (20) extending in a radial plane. The method comprises at least the following shaping steps: shearing a wire of material (38) so as to obtain a part with a predetermined length, calibrating the part so as to correct the geometry of the part, blanking the calibrated part (34) so as to obtain the head of the bolting part, and finishing the blanked part by means of a third punch (36) so as to form a head comprising at least one shoulder (20), the calibration, blanking and finishing steps being performed only by cold stamping.

IPC 8 full level

B21K 1/46 (2006.01); **B25B 13/06** (2006.01); **B25B 13/48** (2006.01); **B25B 23/00** (2006.01); **F16B 23/00** (2006.01)

CPC (source: EP US)

B21K 1/46 (2013.01 - EP US); **B21K 1/463** (2013.01 - EP US); **B25B 13/04** (2013.01 - EP US); **B25B 13/065** (2013.01 - EP US); **B25B 13/08** (2013.01 - EP US); **F16B 23/003** (2013.01 - EP US); **F16B 23/0061** (2013.01 - EP US); **F16B 23/0076** (2013.01 - EP US)

Citation (search report)

See references of WO 2010046611A2

Designated contracting state (EPC)

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

DOCDB simple family (publication)

FR 2937568 A1 20100430; **FR 2937568 B1 20111223**; AU 2009306172 A1 20100429; BR PI0919618 A2 20151208; CA 2738227 A1 20100429; CN 102196870 A 20110921; EP 2349607 A2 20110803; MA 32760 B1 20111101; MX 2011003368 A 20110906; US 2011183766 A1 20110728; US 9028334 B2 20150512; WO 2010046611 A2 20100429; WO 2010046611 A3 20100617

DOCDB simple family (application)

FR 0805908 A 20081024; AU 2009306172 A 20091023; BR PI0919618 A 20091023; CA 2738227 A 20091023; CN 200980141694 A 20091023; EP 09815468 A 20091023; FR 2009052041 W 20091023; MA 33730 A 20110330; MX 2011003368 A 20091023; US 200913121774 A 20091023