

Title (en)

METHOD AND DEVICE FOR PRODUCING GROOVED BOLTS

Title (de)

VERFAHREN UND VORRICHTUNG ZUR HERSTELLUNG VON RILLENBOLZEN

Title (fr)

PROCÉDÉ ET DISPOSITIF DE FABRICATION DE BOULONS À RAINURE

Publication

EP 2897745 B1 20170405 (DE)

Application

EP 13785348 A 20130902

Priority

- DE 102012018478 A 20120919
- DE 2013200146 W 20130902

Abstract (en)

[origin: CA2880315A1] The invention relates to a method for producing a bolt (10) with a head (12) which is provided with a circumferential groove (20) or channel, wherein the groove (20) or channel is produced by pressing a bulge (18) against the head (12) by means of a radially active closing tool (112).

IPC 8 full level

B21J 5/08 (2006.01); **B21J 9/06** (2006.01); **B21K 1/46** (2006.01)

CPC (source: EP US)

B21J 5/08 (2013.01 - EP US); **B21J 9/06** (2013.01 - EP US); **B21K 1/46** (2013.01 - EP 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 MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

DE 102012018478 A1 20140320; CA 2880315 A1 20140327; EP 2897745 A1 20150729; EP 2897745 B1 20170405; MX 2015003496 A 20150622; TW 201422336 A 20140616; US 2015190861 A1 20150709; WO 2014044271 A1 20140327

DOCDB simple family (application)

DE 102012018478 A 20120919; CA 2880315 A 20130902; DE 2013200146 W 20130902; EP 13785348 A 20130902; MX 2015003496 A 20130902; TW 102132004 A 20130905; US 201314419417 A 20130902