

Title (en)
METHOD FOR PLACING RIVET ELEMENTS BY MEANS OF A PORTABLE RIVETING DEVICE DRIVEN BY AN ELECTRIC MOTOR, AND RIVETING DEVICE

Title (de)
VERFAHREN ZUM SETZEN VON NIETELEMENTEN DURCH EIN VON EINEM ELEKTROMOTOR ANGETRIEBENES PORTABLES NIETGERÄT SOWIE EIN NIETGERÄT

Title (fr)
PROCÉDÉ POUR POSER DES ÉLÉMENTS RIVETÉS AU MOYEN D'UN APPAREIL DE RIVETAGE PORTABLE ENTRAÎNÉ PAR UN MOTEUR ÉLECTRIQUE, ET APPAREIL DE RIVETAGE

Publication
EP 2225057 B1 20140226 (DE)

Application
EP 08860746 A 20081210

Priority
• EP 2008010491 W 20081210
• DE 102007059422 A 20071210

Abstract (en)
[origin: WO2009074312A1] The present invention relates to a method for placing rivet elements by means of a portable riveting device driven by an electric motor, comprising a placing device, wherein the force of the placing device utilized to place a rivet element is monitored based on the current consumed by the electric motor, wherein the path travelled by the rivet element during the placement operation and/or travelled by the placing device during the placement operation of the rivet element is repeatedly measured by at least one sensor unit, and wherein the force of the placing device exerted on the respective measuring point is determined at the respective measuring point and is compared to a reference force value range for the respective measuring point, wherein the placement operation of the rivet element is not qualitatively accepted, if at a measuring point the force of the placing device exerted at said measuring point is outside the reference force value range for said measuring point.

IPC 8 full level
B21J 15/28 (2006.01); **B21J 15/04** (2006.01); **B21J 15/06** (2006.01); **B21J 15/26** (2006.01)

CPC (source: EP US)
B21J 15/043 (2013.01 - EP US); **B21J 15/105** (2013.01 - EP US); **B21J 15/26** (2013.01 - EP US); **B21J 15/285** (2013.01 - EP US); **Y10T 29/49956** (2015.01 - EP US); **Y10T 29/5377** (2015.01 - EP US)

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 MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)
DE 102007059422 A1 20090618; **DE 102007059422 B4 20170713**; EP 2225057 A1 20100908; EP 2225057 B1 20140226; ES 2456141 T3 20140421; JP 2011506097 A 20110303; JP 5421281 B2 20140219; US 2010257720 A1 20101014; US 9079240 B2 20150714; WO 2009074312 A1 20090618

DOCDB simple family (application)
DE 102007059422 A 20071210; EP 08860746 A 20081210; EP 2008010491 W 20081210; ES 08860746 T 20081210; JP 2010536384 A 20081210; US 74721808 A 20081210