

Title (en)  
METHOD FOR FILLING A RIVET CARTRIDGE WITH RIVET ELEMENTS

Title (de)  
VERFAHREN ZUM BEFÜLLEN EINER NIETKASSETTE MIT NIETELEMENTEN

Title (fr)  
PROCÉDÉ POUR REMPLIR UNE CASSETTE À RIVETS D'ÉLÉMENTS FORMANT RIVETS

Publication  
**EP 3455009 A1 20190320 (DE)**

Application  
**EP 17729779 A 20170512**

Priority  
• DE 102016108875 A 20160513  
• EP 2017061482 W 20170512

Abstract (en)  
[origin: WO2017194749A1] The invention relates to a method for filling a rivet cartridge (2) with rivet elements (3) using a rivet loading station (1) that includes a rivet supply unit (4) for supplying the rivet elements (3) and a rivet cartridge holder (5) for accepting a rivet cartridge (2); in said method, the rivet elements (3) are delivered from the rivet supply unit (4) to a rivet cartridge (2) accommodated in the rivet cartridge holder (5) and are accepted therein in an oriented manner. According to the invention, the rivet loading station (1) detects predefined properties of the rivet elements (3) before the rivet elements (3) are delivered to the rivet cartridge (2), said properties being relevant to the drilling process and/or the riveting process.

IPC 8 full level  
**B21J 15/28** (2006.01); **B21J 15/32** (2006.01); **B23P 19/00** (2006.01)

CPC (source: EP RU US)  
**B21J 15/28** (2013.01 - EP US); **B21J 15/32** (2013.01 - EP RU US); **B23P 19/00** (2013.01 - RU); **B23P 19/001** (2013.01 - US); **B65G 47/14** (2013.01 - RU); **B07C 2501/0009** (2013.01 - EP US); **B23P 19/001** (2013.01 - EP)

Citation (search report)  
See references of WO 2017194749A1

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

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**WO 2017194749 A1 20171116**; CN 109311076 A 20190205; CN 109311076 B 20210528; DE 102016108875 A1 20171116;  
EP 3455009 A1 20190320; RU 2018139926 A 20200615; RU 2018139926 A3 20200728; RU 2769709 C2 20220405; US 11167339 B2 20211109;  
US 2019291171 A1 20190926

DOCDB simple family (application)  
**EP 2017061482 W 20170512**; CN 201780029668 A 20170512; DE 102016108875 A 20160513; EP 17729779 A 20170512;  
RU 2018139926 A 20170512; US 201716301155 A 20170512