

Title (en)

RIVETING MACHINE AND CORRESPONDING METHOD

Title (de)

NIETMASCHINE UND ENTSPRECHENDES VERFAHREN

Title (fr)

MACHINE DE RIVETAGE ET PROCEDE CORRESPONDANT

Publication

EP 4366896 A1 20240515 (FR)

Application

EP 22730960 A 20220517

Priority

- FR 2107359 A 20210707
- FR 2022050932 W 20220517

Abstract (en)

[origin: WO2023281169A1] The invention relates to a riveting machine that is used for riveting two parts The machine comprises a motorized-drive system (2) comprising an output shaft, a set (3) of mutually articulated link rods, comprising a first link rod (31) mounted so that it rotates as one with the output shaft of the motorized-drive system (2) and a second link rod (32) articulated to the first link rod (31), a ram (4) articulated to the second link rod (32) and equipped at its opposite end from the one articulated to the second link rod with an upper rivet die (5), a guide device (6) having a through-orifice in which the ram (4) is engaged, and a lower rivet die (9), able to collaborate with the upper rivet die (5) to upset the rivet, when the rivet is placed inside an orifice pierced through the parts that are to be riveted together, between the upper and lower rivet dies. The rotation of the output shaft of the motorized-drive system (2) drives the movement of the ram (4) along the through-orifice of the guide device (6) to allow, through the movement of the link rods (31, 32) from a folded position to a deployed position, the lowering of the upper rivet die (5) so as to bring the rivet into the hole pierced through the two parts that are to be riveted together.

IPC 8 full level

B21J 15/26 (2006.01); **B21J 15/32** (2006.01)

CPC (source: EP US)

B21J 15/26 (2013.01 - EP US); **B21J 15/285** (2013.01 - US); **B21J 15/32** (2013.01 - EP US); **B21J 15/42** (2013.01 - US); **B21J 15/02** (2013.01 - US); **B21J 15/142** (2013.01 - US); **B21J 15/44** (2013.01 - US); **Y10T 29/49943** (2015.01 - US); **Y10T 29/49956** (2015.01 - 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

Designated extension state (EPC)

BA ME

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

WO 2023281169 A1 20230112; CN 117545569 A 20240209; EP 4366896 A1 20240515; FR 3124959 A1 20230113; FR 3124959 B1 20230602; JP 2024524917 A 20240709; US 12097552 B2 20240924; US 2024278311 A1 20240822

DOCDB simple family (application)

FR 2022050932 W 20220517; CN 202280044576 A 20220517; EP 22730960 A 20220517; FR 2107359 A 20210707; JP 2023577380 A 20220517; US 202218569927 A 20220517