Title (en)

TOOL ASSEMBLY FOR RIVETING WORKPIECES

Publication

EP 0402222 B1 19930331 (FR)

Application

EP 90401499 A 19900605

Priority

FR 8907439 A 19890606

Abstract (en)

[origin: EP0402222A1] Tool assembly for riveting workpieces, comprising a first and a second frame (2, 5) which are capable of being mounted on a common "C" or on separate robotic arms (60, 61), a pair of blank-holders (3, 6) each mounted on one of the frames and at least one of which is provided with means (11) for displacing it in relation to the corresponding frame with a force corresponding to the clamping envisaged for holding in position the pieces for riveting during piercing, at least one piercing machine (20, 21) mounted on one frame, means (41) for positioning a rivet (40) in a hole made by the piercing machine, these means being supported by one frame, a percussion- riveting hammer (51) supported by one frame and an associated counter- piece (54) supported by the other frame and integral with a reaction dolly (52). The elements supported by each frame are all provided with means for displacing them between an active position and a rest position. <IMAGE>

IPC 1-7

B21J 15/10

IPC 8 full level

B21J 15/10 (2006.01); B21J 15/14 (2006.01)

CPC (source: EP US)

B21J 15/10 (2013.01 - EP US); **B21J 15/14** (2013.01 - EP US); **B21J 15/142** (2013.01 - EP US); **Y10T 29/49943** (2015.01 - EP US); **Y10T 29/53774** (2015.01 - EP US)

Cited by

ES2039137A1; EP0512649A1; US5404641A; US5542796A; FR3068902A1; WO9505260A1; US9321099B1

Designated contracting state (EPC)

DE GB IT NL SE

DOCDB simple family (publication)

EP 0402222 A1 19901212; **EP 0402222 B1 19930331**; DE 69001202 D1 19930506; DE 69001202 T2 19930708; FR 2647696 A1 19901207; FR 2647696 B1 19910927; US 6108896 A 20000829

DOCDB simple family (application)

EP 90401499 A 19900605; DE 69001202 T 19900605; FR 8907439 A 19890606; US 32237094 A 19941013