

Title (en)

Operating device for punches in punch heads.

Title (de)

Betriebsvorrichtung für Stanzen in Stanzköpfen

Title (fr)

Dispositif de commande pour poinçons dans des têtes de poinçon

Publication

**EP 2719478 A1 20140416 (EN)**

Application

**EP 13170545 A 20130605**

Priority

IT VE20120038 A 20121011

Abstract (en)

A punching device for punching machines, movable in a plane along two perpendicular axes, said device comprising an electric motor, a speed reducer (10) applied to the shaft of the electric motor, a bar (14) eccentrically rigid with the output shaft of the speed reducer, a link rod (18) pivoted to said bar, and a ram connected to the free end of the link rod, means (30, 36; 38, 40, 42) for regulating the vertical position of a striker relative to said ram (20), characterised in that the striker (26) is housed within a striker gate (24) applied to the lower surface of the ram (20) and is maintained elastically resting against said surface, the regulation means consisting of a wedge (30) which becomes interposed between the lower surface of the ram and the striker (26).

IPC 8 full level

**B21D 28/00** (2006.01)

CPC (source: EP)

**B21D 28/002** (2013.01); **B21D 28/005** (2013.01)

Citation (search report)

- [A] US 5205149 A 19930427 - HAYASHI TETSUJI [US]
- [A] GB 2030499 A 19800410 - MERCER NAIRNE & CO LTD
- [A] WO 03015953 A1 20030227 - DALLAN SPA [IT], et al
- [A] US 4250785 A 19810217 - MORISHITA AKIO, et al
- [A] EP 0104509 A2 19840404 - RAINER SRL [IT]

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)

**EP 2719478 A1 20140416; EP 2719478 B1 20150916**; IT VE20120038 A1 20140412; PL 2719478 T3 20160331

DOCDB simple family (application)

**EP 13170545 A 20130605**; IT VE20120038 A 20121011; PL 13170545 T 20130605