

Title (en)

Tooling system with interchangeable tooling inserts for punching machines

Title (de)

Werkzeugsystem mit auswechselbaren Werkzeugeinsätzen für Stanzmaschinen

Title (fr)

Système d'outillage avec inserts d'outils interchangeables pour machines de découpage / poinçonnage

Publication

**EP 2196270 B1 20140507 (DE)**

Application

**EP 08021443 A 20081210**

Priority

EP 08021443 A 20081210

Abstract (en)

[origin: EP2196270A1] The adapter (1) has a mounting device for accommodating the stamp adapter in a stamp shaft. A stamp receptacle (6) includes an opening with a central axis (8) extending parallel to and separate from another central axis (2). A circular cylindrical counterbore and a circular cylindrical through-hole (7) through which the former central axis extends are provided. The counterbore is not rotationally symmetrical with respect to the former central axis. The counterbore comprises radial orientated cylindrical recesses that are not rotationally symmetrical with respect to the former central axis. An independent claim is also included for a tool system with a tool lower portion comprising a die adapter having two die receptacles.

IPC 8 full level

**B21D 28/34** (2006.01); **B21D 28/12** (2006.01)

CPC (source: EP US)

**B21D 28/12** (2013.01 - EP US); **B21D 28/34** (2013.01 - EP US); **B26F 1/44** (2013.01 - EP US); **B21D 28/343** (2013.01 - US); **B21D 28/346** (2013.01 - US); **B21D 37/02** (2013.01 - US); **B21D 37/04** (2013.01 - US); **B21D 37/10** (2013.01 - US); **B26F 1/14** (2013.01 - EP US); **Y10T 83/8748** (2015.04 - EP US); **Y10T 83/9416** (2015.04 - EP US); **Y10T 83/9423** (2015.04 - EP US); **Y10T 83/9425** (2015.04 - EP US); **Y10T 83/97** (2015.04 - EP US)

Citation (examination)

GB 2195937 A 19880420 - PULLMAX AB

Cited by

CN106938294A; CN106862405A; CN105945130A; WO2015127020A1; US9481064B2

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)

**EP 2196270 A1 20100616**; **EP 2196270 B1 20140507**; EP 2764933 A1 20140813; EP 2764933 B1 20161005; US 2010139470 A1 20100610; US 2014033887 A1 20140206; US 8567228 B2 20131029; US 9908254 B2 20180306

DOCDB simple family (application)

**EP 08021443 A 20081210**; EP 14167224 A 20081210; US 201314048697 A 20131008; US 63527909 A 20091210