

Title (en)

Tool system with exchangeable tool inserts for punching machines

Title (de)

Werkzeugsystem mit auswechselbaren Werkzeugeinsätzen für Stanzmaschinen

Title (fr)

Système d'outil doté d'ensembles d'outils pouvant être remplacés pour machines de poinçonnage

Publication

EP 2764933 A1 20140813 (DE)

Application

EP 14167224 A 20081210

Priority

- EP 14167224 A 20081210
- EP 08021443 A 20081210

Abstract (en)

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.

Abstract (de)

Es wird ein Werkzeugsystem mit einem Stempeladapter (1), der außermittige Stempelaufnahmen (6, 12) aufweist, zur Verfügung gestellt, wobei in dem Stempeladapter (1) ein einfaches Auswechseln von Werkzeugeinsätzen (26), die bereits in einem anderen System verwendet werden, und die Kombination des Stempeladapters (1) mit einem Stempelschaft (18), der ebenfalls bereits in einem weiteren System verwendet wird, erlaubt wird, und dadurch ein rüstarmes Stanzen ermöglicht wird.

IPC 8 full level

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

- [E] WO 2009012028 A1 20090122 - WILSON TOOL INT [US], et al
- [X] JP H02142626 A 19900531 - MUSASHI SEIMITSU KOGYO KK
- [X] WO 2008046501 A1 20080424 - TRUMPF WERKZEUGMASCHINEN GMBH [DE], et al
- [X] DE 3631457 A1 19880317 - EDEL STANZMASCHINEN GMBH [DE]
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- [X] GB 2195937 A 19880420 - PULLMAX AB
- [A] US 4171656 A 19791023 - GARGRAVE ROBERT J [US]
- [A] US 3797352 A 19740319 - SMITH R

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