

Title (en)
MULTI-TOOL FOR A PUNCH DEVICE

Title (de)
MEHRFACHWERKZEUG FÜR EINE STANZVORRICHTUNG

Title (fr)
OUTIL MULTIPLE POUR UN DISPOSITIF D'ESTAMPAGE

Publication
EP 3197616 A1 20170802 (DE)

Application
EP 16777981 A 20161004

Priority
• DE 102015219416 A 20151007
• EP 2016073676 W 20161004

Abstract (en)
[origin: WO2017060241A1] A multi-tool (5) is a component of a punch device, in particular a revolving punch press. A tool upper part (5a) has a plurality of upper tools (12, 14), which can be controlled from a head end via a machine rod (4) of the punch device for the processing of work pieces. A tool lower part (5b) has a plurality of lower tools (13). A work piece (9) can be arranged between the tool upper part (5a) and the tool lower part (5b). Each of the lower tools (13) cooperates with an associated upper tool (12). The number of upper tools (12, 14) is greater than the number of lower tools (13). As a result, a multi-tool is created for expanding the possible applications of a punch device.

IPC 8 full level
B21D 28/12 (2006.01)

CPC (source: EP US)
B21D 28/125 (2013.01 - EP US)

Citation (search report)
See references of WO 2017060241A1

Cited by
EP3967512A1; WO2021259592A1; US11524476B2

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Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
DE 102015219416 B3 20170302; CN 107708885 A 20180216; CN 107708885 B 20191022; EP 3197616 A1 20170802; EP 3197616 B1 20171206; US 10730094 B2 20200804; US 2018141100 A1 20180524; WO 2017060241 A1 20170413

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