

Title (en)  
MACHINING UNIT AND MACHINE-TOOL FOR STAMPING WORKPIECES, IN PARTICULAR METAL SHEETS

Title (de)  
BEARBEITUNGSEINHEIT SOWIE WERKZEUGMASCHINE ZUR STANZENDEN BEARBEITUNG VON WERKSTÜCKEN, INSBESONDERE VON BLECHEN

Title (fr)  
UNITE D'USINAGE ET MACHINE-OUTIL DESTINEE AU TRAITEMENT PAR POINÇONNAGE DES PIECES USEEES, EN PARTICULIER DES TOLES

Publication  
**EP 3219404 B1 20180606 (DE)**

Application  
**EP 16160858 A 20160317**

Priority  
EP 16160858 A 20160317

Abstract (en)  
[origin: JP2017164815A] PROBLEM TO BE SOLVED: To expand an operational mode of a scraper.SOLUTION: A processing unit (6) for punching a metal thin plate (5) has a punching tool support body (7), and a scraper support body (9) for a scraper (10). Lateral drive members (17, 18) are driven with lateral movement of a drive unit relative to the punching tool support body (7) and along a lateral movement axis (19) extending in a lateral direction with respect to a stroke axis (11) by a punching drive motor (14). The scraper support body (9) can be moved along the stroke axis (11) by a scraper drive unit (13), and the punching tool support body (7) and the scraper support body (9) can be moved along the stroke axis (11) and relatively to each other. A tool machine (1) is provided with the processing unit (6).SELECTED DRAWING: Figure 1

IPC 8 full level  
**B21D 28/26** (2006.01); **B21D 45/08** (2006.01)

CPC (source: CN EP US)  
**B21D 28/00** (2013.01 - CN); **B21D 28/002** (2013.01 - CN); **B21D 28/02** (2013.01 - US); **B21D 28/265** (2013.01 - EP US); **B21D 45/006** (2013.01 - US); **B21D 45/06** (2013.01 - EP US); **B21D 45/08** (2013.01 - EP US); **B30B 1/40** (2013.01 - CN); **B30B 1/40** (2013.01 - US)

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

DOCDB simple family (publication)  
**EP 3219404 A1 20170920**; **EP 3219404 B1 20180606**; CN 107199271 A 20170926; CN 107199271 B 20190405; JP 2017164815 A 20170921; JP 6861546 B2 20210421; US 10543522 B2 20200128; US 2017266714 A1 20170921

DOCDB simple family (application)  
**EP 16160858 A 20160317**; CN 201710303645 A 20170316; JP 2017052888 A 20170317; US 201715460841 A 20170316