

Title (en)  
DEVICE FOR PUNCHING AND PERFORATING

Title (de)  
STANZ- / PERFORIERMASCHINE

Title (fr)  
DISPOSITIF POUR LE POINÇONNAGE ET LA PERFORATION

Publication  
**EP 3946854 B1 20240221 (DE)**

Application  
**EP 20722441 A 20200401**

Priority  
• DE 202019001573 U 20190405  
• DE 2020000072 W 20200401

Abstract (en)  
[origin: WO2020200346A1] Disclosed is a punching/perforation machine (10) for creating a predefinable punching/perforation pattern in a material unit/web (M) that is supplied in a direction of travel (T), the punching/perforation machine (10) comprising a punching/perforation tool that includes an upper tool part (12.1) which can be moved in a direction of stroke (H) and which is equipped with a plurality of punching dies/perforation needles (16) that are arranged in a predefined grid in a transverse direction (Q) and can be moved by means of a pressure beam (36) that is operatively connected to a drive unit (18) via a control device (30) in order to produce a punching/perforation stroke (H); the punching/perforation tool also includes a stationary lower tool part (12.2)/female die, the material unit/web (M) being supplied between the upper tool part (12.1) and the lower tool part (12.2); characterized in that means (70, 72) are provided for generating a simultaneous movement of the material unit/web (M) relative to the punching/perforation tool by a predefinable distance both in the direction of travel (T) and in the transverse direction (Q) such that the material unit/web (M) can be placed in a different predefinable position relative to the punching/perforation tool prior to each punching/perforation stroke (H).

IPC 8 full level  
**B26F 1/04** (2006.01)

CPC (source: EP US)  
**B26D 5/00** (2013.01 - EP); **B26D 5/12** (2013.01 - EP US); **B26F 1/04** (2013.01 - EP US); **B26F 1/24** (2013.01 - EP US); **B26F 1/44** (2013.01 - EP); **B26D 2005/002** (2013.01 - US); **B26F 2001/407** (2013.01 - EP); **B26F 2001/4481** (2013.01 - EP)

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

Designated validation state (EPC)  
MA MD TN

DOCDB simple family (publication)  
**DE 202019001573 U1 20190603**; DE 112020001750 A5 20211216; EP 3946854 A1 20220209; EP 3946854 B1 20240221; EP 3946854 C0 20240221; HR P20240518 T1 20240705; MA 55535 A 20220209; MX 2021012203 A 20220104; PL 3946854 T3 20240624; RS 65523 B1 20240628; US 11787076 B2 20231017; US 2022111545 A1 20220414; WO 2020200346 A1 20201008

DOCDB simple family (application)  
**DE 202019001573 U 20190405**; DE 112020001750 T 20200401; DE 2020000072 W 20200401; EP 20722441 A 20200401; HR P20240518 T 20200401; MA 55535 A 20200401; MX 2021012203 A 20200401; PL 20722441 T 20200401; RS P20240557 A 20200401; US 202017601124 A 20200401