

Title (en)

Device for the chipless shaping/forming of a planar workpiece

Title (de)

Einrichtung zur spanlosen Formgebung/Umformung eines flächigen Werkstücks

Title (fr)

Dispositif de façonnage / déformation sans enlèvement de matière d'une pièce à usiner plate

Publication

**EP 2636518 A3 20131002 (DE)**

Application

**EP 13157769 A 20130305**

Priority

DE 202012100785 U 20120306

Abstract (en)

[origin: EP2636518A2] The device (1) has a column guide (2) having a bottom plate (4) that is provided with four columns (3) that are arranged at four corners respectively. An upper plate (6) is connected with bottom plate through four columns. The bottom plate is slidable relative to upper plate. A drive unit (11) is provided to drive a tool set (8) provided between the upper and lower plates.

IPC 8 full level

**B30B 1/18** (2006.01); **B30B 1/32** (2006.01); **B30B 1/34** (2006.01); **B30B 15/04** (2006.01)

CPC (source: EP)

**B30B 1/18** (2013.01); **B30B 1/32** (2013.01); **B30B 1/34** (2013.01); **B30B 15/041** (2013.01)

Citation (search report)

- [XY] WO 9822238 A1 19980528 - SANYO MACHINE WORKS [JP], et al
- [Y] DE 3937426 C1 19910221
- [Y] JP 2000246498 A 20000912 - AIDA ENG LTD
- [XY] WO 2006136045 A1 20061228 - ZUMSTEIN ROLAND-MARCEL [CH]
- [Y] GB 2409419 A 20050629 - LATEBRIDGE LTD [GB]
- [X] EP 2193912 A2 20100609 - GERMAS AG [CH]
- [Y] EP 1849590 A1 20071031 - FETTE GMBH [DE]
- [X] DE 202005013002 U1 20051201 - HUELSHORST JOHANNES [DE]
- [X] DE 19821159 A1 19991125 - HUELSHORST JOHANNES [DE]
- [X] DE 4001993 A1 19900726 - WANZKE MANFRED [DE]
- [X] WO 03045677 A1 20030605 - GIBSON-COLLINSON MARC [GB]

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 ME

DOCDB simple family (publication)

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DOCDB simple family (application)

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