

Title (en)

DEVICE AND METHOD FOR COMPACTING MINERAL MIXTURES OR FOR DEEP DRAWING SHEET METAL OR PLASTIC SHEETS

Title (de)

VORRICHTUNG UND VERFAHREN ZUM VERDICHTEN VON MINERALGEMISCHEN ODER ZUM TIEFZIEHEN VON BLECH- ODER KUNSTSTOFFPLATTEN

Title (fr)

DISPOSITIF ET PROCÉDÉ DE COMPACTAGE DE MÉLANGES MINÉRAUX OU D'EMBOUTISSAGE DE PLAQUES DE TÔLE OU DE MATIÈRE PLASTIQUE

Publication

EP 3094480 B1 20230712 (DE)

Application

EP 15701709 A 20150114

Priority

- DE 202014000162 U 20140114
- DE 202014000704 U 20140120
- EP 2015050597 W 20150114

Abstract (en)

[origin: WO2015107082A1] The invention relates to a device for the compacting, in particular the harmonic compacting, of mineral mixtures, in particular concrete mixtures in the production of all types of concrete products, or for deep drawing. The invention also relates to a machine frame (10) having a machine head (12), a machine table (14), and at least two side elements (16a, 16b) connecting the machine head (12) and the machine table (14). A first piston-cylinder assembly (39), which is connected to the machine table (14), is designed in such a way that lifting and lowering forces are exerted on a form element (42, 24) that can be filled with mineral mixture, in particular with concrete mixture, or a form element on which a sheet metal or plastic blank can be laid, said piston-cylinder assembly also being designed to lift and/or lower and/or vibrate the form element (42, 24). A second piston-cylinder assembly (44), which is connected to the machine head (12), is designed in such a way that a punch (58), which can enter into the form element (42, 24), is held using a holding force greater than or equal to the maximum lifting force of the first piston-cylinder assembly. The invention also relates to a method for compacting or deep drawing using the device.

IPC 8 full level

B30B 11/00 (2006.01); **B21D 22/22** (2006.01); **B28B 1/087** (2006.01); **B28B 3/02** (2006.01); **B30B 11/02** (2006.01)

CPC (source: EP)

B28B 3/022 (2013.01); **B30B 11/007** (2013.01); **B30B 11/022** (2013.01); **B21D 22/22** (2013.01)

Citation (examination)

EP 0894587 A1 19990203 - SACMI [IT]

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)

WO 2015107082 A1 20150723; EP 3094480 A1 20161123; EP 3094480 B1 20230712; EP 3094480 C0 20230712

DOCDB simple family (application)

EP 2015050597 W 20150114; EP 15701709 A 20150114