

Title (en)

METHOD FOR PRODUCING MATERIAL COLUMNS AND VIBRATING DEVICE HAVING A RECIPROCATING UNIT

Title (de)

VERFAHREN ZUR HERSTELLUNG VON MATERIALSÄULEN UND RÜTTLERVORRICHTUNG MIT EINER HUBEINHEIT

Title (fr)

PROCÉDÉ DE PRODUCTION DE COLONNES DE MATÉRIAU ET DISPOSITIF VIBRANT COMPRENANT UNE UNITÉ DE LEVAGE

Publication

**EP 2534310 A2 20121219 (DE)**

Application

**EP 11711259 A 20110209**

Priority

- DE 102010001839 A 20100211
- DE 102010001728 A 20100209
- DE 2011050004 W 20110209

Abstract (en)

[origin: WO2011098081A2] The invention relates to a device for producing material columns in the ground, to a vibrating arrangement, and to a method for producing material columns. The device comprises: a vibrating arrangement (1) having a vibrator (12), at least one first material pipe (11; 111), which has a longitudinal direction, and a material outlet (13) at a lower end of the first material pipe (11; 111); a carrying device (2) for the vibrating arrangement (1), which is designed to move the vibrating arrangement (1) in the longitudinal direction of the first material pipe; at least one lifting unit (3), which is arranged between the carrying device (2) and the first material pipe (11; 111) and which is designed to move at least the first material pipe (11; 111) in the longitudinal direction of the first material pipe.

IPC 8 full level

**E02D 3/046** (2006.01); **E02D 3/08** (2006.01); **E02D 5/38** (2006.01); **E02D 5/46** (2006.01)

CPC (source: EP)

**E02D 3/046** (2013.01); **E02D 3/08** (2013.01); **E02D 5/385** (2013.01); **E02D 5/46** (2013.01)

Citation (search report)

See references of WO 2011098081A2

Cited by

CN111593724A

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)

**DE 102010001839 A1 20110811**; EP 2534310 A2 20121219; EP 2534310 B1 20150909; PL 2534310 T3 20160429; WO 2011098081 A2 20110818; WO 2011098081 A3 20120628

DOCDB simple family (application)

**DE 102010001839 A 20100211**; DE 2011050004 W 20110209; EP 11711259 A 20110209; PL 11711259 T 20110209