

Title (en)

MACHINE AND METHOD FOR BUILDING COLUMNS IN A FLOOR

Title (de)

MASCHINE UND VERFAHREN ZUR ERSTELLUNG VON SÄULEN IN EINEM BODEN

Title (fr)

MACHINE ET PROCÉDÉ POUR LA RÉALISATION DE COLONNES DANS UN SOL

Publication

**EP 3002371 A1 20160406 (FR)**

Application

**EP 15187924 A 20151001**

Priority

FR 1459355 A 20141001

Abstract (en)

[origin: CA2906244A1] The invention relates to a machine (10) for making columns in ground, the machine comprising a carrier (12) having a mast (14) extending along a longitudinal direction; a movable carriage (16) mounted to slide along the mast (14); a ground perforation tool (20) extending along a longitudinal axis parallel to said longitudinal direction and secured to said movable carriage, presenting a top end connected to building material feed means, and a bottom end provided with an orifice (28) for injecting the first building material; a rotary drive system (18) for driving the perforation tool (20) in rotation; and a body (40) extending around the perforation tool (20) so that the perforation tool is suitable for sliding through said body. According to the invention, the machine has a coupling system (60) for coupling together the body (40) and the perforation tool (20) in translation and in rotation.

Abstract (fr)

L'invention concerne une machine (10) pour la réalisation de colonnes dans un sol, du type comportant un porteur (12) muni d'un mât (14) s'étendant selon une direction longitudinale ; un chariot mobile (16) monté coulissant le long du mât (14) ; un outil de perforation de sol (20), s'étendant selon un axe longitudinal parallèle à ladite direction longitudinale et solidaire dudit chariot mobile, présentant une extrémité supérieure reliée à des moyens d'alimentation en un matériau de construction, et une extrémité inférieure munie d'un orifice (28) pour l'injection du premier matériau de construction ; un système d'entraînement en rotation (18) de l'outil de perforation (20) ; et un corps (40) s'étendant autour de l'outil de perforation (20) de sorte que l'outil de perforation est apte à coulisser au travers dudit corps. Selon l'invention, la machine comprend un système de solidarisation (60) en translation et en rotation du corps (40) avec l'outil de perforation (20).

IPC 8 full level

**E02D 3/08** (2006.01); **E02D 3/12** (2006.01); **E02D 5/30** (2006.01); **E02D 5/34** (2006.01); **E02D 5/38** (2006.01); **E02D 5/66** (2006.01); **E02D 7/22** (2006.01); **E02D 27/12** (2006.01)

CPC (source: EP US)

**E02D 3/08** (2013.01 - EP US); **E02D 3/126** (2013.01 - EP US); **E02D 5/30** (2013.01 - EP US); **E02D 5/34** (2013.01 - EP US); **E02D 5/36** (2013.01 - EP US); **E02D 5/385** (2013.01 - EP US); **E02D 5/665** (2013.01 - EP US); **E02D 7/22** (2013.01 - EP US); **E02D 15/04** (2013.01 - EP US); **E02D 27/12** (2013.01 - EP US)

Citation (applicant)

FR 2960571 A1 20111202 - SOLETANCHE FREYSSINET [FR]

Citation (search report)

- [AD] FR 2960571 A1 20111202 - SOLETANCHE FREYSSINET [FR]
- [A] EP 1878833 A1 20080116 - CIE DU SOL [FR]

Cited by

CN110243344A; EP3754154A1; FR3097588A1; WO2020209741A2

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)

**EP 3002371 A1 20160406**; **EP 3002371 B1 20170628**; CA 2906244 A1 20160401; CA 2906244 C 20230103; FR 3026754 A1 20160408; FR 3026754 B1 20161202; HU E034523 T2 20180228; PL 3002371 T3 20171229; US 2016097177 A1 20160407; US 9624638 B2 20170418

DOCDB simple family (application)

**EP 15187924 A 20151001**; CA 2906244 A 20150925; FR 1459355 A 20141001; HU E15187924 A 20151001; PL 15187924 T 20151001; US 201514868504 A 20150929