

Title (en)

Device and method for producing columns of particulate matter in the ground or bodies of water

Title (de)

Vorrichtung und Verfahren zur Erzeugung von Materialsäulen im Boden von Gewässern

Title (fr)

Dispositif et procédé de production de colonnes de matériaux au fond des eaux

Publication

EP 1328687 B1 20090415 (DE)

Application

EP 01988804 A 20011026

Priority

- DE 10053427 A 20001027
- EP 0112456 W 20011026

Abstract (en)

[origin: WO0235013A1] The invention relates to a device for producing columns of materials in the ground, especially in the ground of bodies of water, comprising the following: a first tank (8) of material and a second tank (10) of material connected to the first tank; a deep vibrator element (11) connected to the second tank of material (10), a first supply line (5) connected to the first tank of material (8) and used to supply material; a second supply line (6) connected to the first tank (8) of material and used to compensate pressure in the first tank (8) of material. The invention also relates to the production of a column of material in the ground.

IPC 8 full level

E02D 15/06 (2006.01); **E02D 5/46** (2006.01); **E02D 27/52** (2006.01); **E21B 33/05** (2006.01); **E21B 33/14** (2006.01)

CPC (source: EP KR US)

E02D 5/46 (2013.01 - EP US); **E02D 15/06** (2013.01 - EP KR US); **E02D 27/52** (2013.01 - EP US)

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

WO 0235013 A1 20020502; AT E428828 T1 20090515; AU 2176902 A 20020506; DE 10053427 A1 20020516; DE 10053427 C2 20030430; DE 50114843 D1 20090528; EP 1328687 A1 20030723; EP 1328687 B1 20090415; ES 2325116 T3 20090826; HK 1054975 A1 20031219; KR 100801350 B1 20080205; KR 20030070017 A 20030827; MX PA03003660 A 20050125; PT 1328687 E 20090605; US 2004074560 A1 20040422; US 6742555 B2 20040601

DOCDB simple family (application)

EP 0112456 W 20011026; AT 01988804 T 20011026; AU 2176902 A 20011026; DE 10053427 A 20001027; DE 50114843 T 20011026; EP 01988804 A 20011026; ES 01988804 T 20011026; HK 03107152 A 20031003; KR 20037005792 A 20030425; MX PA03003660 A 20011026; PT 01988804 T 20011026; US 41528203 A 20031110