

Title (en)

Apparatus for inserting foreign material into the soil an/or for compacting the soil and method for producing a material column in the soil

Title (de)

Gerät zum Einbringen eines Fremdstoffes in Böden und/oder zur Verdichtung des Bodens und Verfahren zur Herstellung einer Materialsäule im Boden

Title (fr)

Appareillage pour l'introduction d'un matériau étranger dans le sol et/ou pour le compactage du sol et méthode de production d'une colonne de matériau dans le sol

Publication

**EP 1068402 A1 20010117 (DE)**

Application

**EP 99915722 A 19990330**

Priority

- DE 19814021 A 19980330
- EP 9902170 W 19990330

Abstract (en)

[origin: US6588987B1] Device for inserting foreign matters into the soil and/or for compacting the soil, comprising a countersinking unit (22) with a depth vibrator, that is coupled to an articulated arm, in addition to a control device through which the articulated arms (2, 3, 4) can be controlled in such a way that the countersinking unit can be displaced linearly in a predetermined direction along its longitudinal extension.

IPC 1-7

**E02D 3/054**; **E02D 5/46**; **E02D 13/06**

IPC 8 full level

**E02D 3/054** (2006.01); **E02D 5/46** (2006.01); **E02D 13/06** (2006.01)

CPC (source: EP US)

**E02D 3/054** (2013.01 - EP US); **E02D 3/08** (2013.01 - EP US); **E02D 3/123** (2013.01 - EP US); **E02D 5/46** (2013.01 - EP US); **E02D 7/14** (2013.01 - EP US); **E02D 13/06** (2013.01 - EP US)

Citation (search report)

See references of WO 9950506A1

Cited by

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Designated contracting state (EPC)

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DOCDB simple family (publication)

**US 6588987 B1 20030708**; AT E278069 T1 20041015; AU 3418999 A 19991018; CA 2326651 A1 19991007; CA 2326651 C 20080603; DE 19814021 A1 19991014; DE 59910663 D1 20041104; EP 1068402 A1 20010117; EP 1068402 B1 20040929; ES 2228030 T3 20050401; WO 9950506 A1 19991007

DOCDB simple family (application)

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