

Title (en)

SOIL COMPACTION SLEEVE, ROLLER HAVING SUCH A SOIL COMPACTION SLEEVE AND METHOD FOR SOIL COMPACTION

Title (de)

BODENVERDICHTUNGSBANDAGE, WALZE MIT EINER SOLCHEN BODENVERDICHTUNGSBANDAGE UND VERFAHREN ZUR BODENVERDICHTUNG

Title (fr)

BANDAGE DE COMPACTAGE DU SOL, ROULEAU COMPRESSEUR AVEC UN TEL BANDAGE DE COMPACTAGE DU SOL ET PROCÉDÉ DE COMPACTAGE DU SOL

Publication

EP 3092341 B1 20190501 (DE)

Application

EP 14824367 A 20141211

Priority

- DE 102013022180 A 20131230
- EP 2014003330 W 20141211

Abstract (en)

[origin: WO2015101407A1] The invention relates to a soil compaction sleeve (8) comprising a sleeve jacket (9) formed in a substantially hollow cylindrical manner, a sleeve interior (11) surrounded at least in part by the sleeve jacket, a vibration exciter device (12) arranged in the sleeve interior and having at least one unbalanced shaft (13), guided in circulation about a rotation axis, with an unbalanced mass (15), wherein the rotational movement of the unbalanced shaft in the rotation axis is drivable by a drive device (16). The invention also relates to a roller (1) having such a soil compaction sleeve (8) and to a vibration exciter device (12) for such a soil compaction sleeve. An essential aspect of the invention is now that the vibration exciter device (12) is arranged in such a way in the sleeve interior (11) that the rotation axis of precisely one unbalanced shaft (13) extends vertically, that the vibration exciter device (12) is arranged in such a way in the sleeve interior via a bearing arrangement that the sleeve jacket (9) is rotatable with respect to the vibration exciter device (12) and the vertically extending rotation axis of the one unbalanced shaft (13) maintains its orientation with the sleeve jacket rotating about a horizontal rotation axis, and that the one vertically extending unbalanced shaft is part of a rotary exciter.

IPC 8 full level

E01C 19/28 (2006.01)

CPC (source: EP)

E01C 19/286 (2013.01)

Cited by

EP4177401A1; DE102021212546A1

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 102014018457 A1 20150702; EP 3092341 A1 20161116; EP 3092341 B1 20190501; WO 2015101407 A1 20150709

DOCDB simple family (application)

DE 102014018457 A 20141211; EP 14824367 A 20141211; EP 2014003330 W 20141211