

Title (en)

Mobile device for compacting a soil layer structure and method for determining the layer-E module of a top layer in this soil layer structure

Title (de)

Verfahrbare Vorrichtung zur Verdichtung eines Bodenschichtaufbaus und Verfahren zur Ermittlung eines Schicht-E-Moduls einer obersten Schicht dieses Bodenschichtaufbaus

Title (fr)

Dispositif déplaçable pour la solidification d'une structure en couches de sol et procédé de la détermination d'un module d'Young à couche d'une couche supérieure de ladite structure en couches de sol

Publication

EP 2458088 B1 20180221 (DE)

Application

EP 11008033 A 20111004

Priority

DE 102010052713 A 20101126

Abstract (en)

[origin: EP2458088A2] The moveable apparatus (1) has vibration element (4) e.g. vibrating roller (6) through which load pulses are introduced towards load introduction region (8) of soil layer structure (2). The detection units (10,12) detects modulus of elasticity of soil layer structure. The detection units are arranged at preset distance in-between, such that one detection unit detects modulus of elasticity of soil layer structure in load introduction region, and another detection unit detects modulus of elasticity of soil layer structure outside the load introduction region. An independent claim is included for method for determining elasticity modulus of soil layer structure.

IPC 8 full level

E01C 19/28 (2006.01); **E01C 19/30** (2006.01)

CPC (source: EP US)

E01C 19/282 (2013.01 - EP US); **E01C 19/288** (2013.01 - EP US); **E02D 1/022** (2013.01 - EP US); **E02D 3/026** (2013.01 - EP US); **E02D 3/046** (2013.01 - EP US)

Cited by

CN103669179A; CN104297049A

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)

EP 2458088 A2 20120530; **EP 2458088 A3 20161005**; **EP 2458088 B1 20180221**; CN 102535313 A 20120704; CN 102535313 B 20141224; DE 102010052713 A1 20120531; US 2012134746 A1 20120531; US 8671760 B2 20140318

DOCDB simple family (application)

EP 11008033 A 20111004; CN 201110378854 A 20111125; DE 102010052713 A 20101126; US 201113300879 A 20111121