

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 A3 20161005 (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)

Citation (search report)

- [X] EP 1103658 A2 20010530 - BOMAG GMBH [DE]
- [A] US 5952561 A 19990914 - JASELSKIS EDWARD J [US], et al
- [A] EP 2148005 A1 20100127 - AMMANN CZECH REPUBLIC A S [CZ]
- [A] DE 2737099 A1 19780223 - KUAB KONSULT OCH UTVECKLING AB

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

Designated extension state (EPC)  
BA ME

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