

Title (en)

Method and device for compacting an area of ground

Title (de)

Verfahren und Vorrichtung zur Verdichtung eines Bodenbereichs

Title (fr)

Méthode et dispositif pour compaction d'une zone de sol

Publication

**EP 1705293 A1 20060927 (DE)**

Application

**EP 05405266 A 20050323**

Priority

EP 05405266 A 20050323

Abstract (en)

The method involves determining a soil reaction force and a phase angle as the compaction values, where the phase angle is an angle between the reaction force and a maximum frequency value of a frequency response system. Position coordinates of the land regions are combined with region specific actual compaction values to adjust the compaction values for eventual successive compaction process by an adjusting unit (41). An independent claim is also included for an arrangement of equipments including a device for compacting a land region.

IPC 8 full level

**E01C 19/28** (2006.01); **E02D 3/074** (2006.01)

CPC (source: EP US)

**E01C 19/288** (2013.01 - EP US); **E01C 19/38** (2013.01 - EP US); **E02D 3/074** (2013.01 - EP US)

Citation (applicant)

- WO 2005028755 A1 20050331 - AMMANN AUFBEREITUNG AG [CH], et al
- DE 19956943 A1 20010531 - BOMAG GMBH [DE]

Citation (search report)

- [X] US 5727900 A 19980317 - SANDSTROM AKE [SE]
- [X] WO 0244475 A1 20020606 - HAMM AG [DE], et al
- [A] WO 9817865 A1 19980430 - AMMANN VERDICHUNG AG [CH], et al
- [A] WO 2004090232 A1 20041021 - WACKER CONSTRUCTION EQUIPMENT [DE], et al
- [A] WO 9528524 A1 19951026 - CATERPILLAR INC [US]

Cited by

EP1985761A3; DE102007018743A1; EP1985760A1; US2011318155A1; US8930090B2; US8332105B2; EP1985761A2; US8727660B2; WO2008049542A1; WO2007073451A1; WO2011127611A3

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