

Title (en)  
Soil compactor with direct drive

Title (de)  
Bodenverdichter mit Direktantrieb

Title (fr)  
Compacteur à entraînement direct

Publication  
**EP 2884005 B1 20161026 (DE)**

Application  
**EP 14003744 A 20141106**

Priority  
DE 102013020857 A 20131212

Abstract (en)  
[origin: CN104711920A] A soil compacting device (1) has an upper mass (2,3,4,5,6,7,8,9) and a lower mass (12,13) that is coupled to the upper mass by a spring device (10,11) and that has a soil contact element (13). In addition, a drive is provided for producing a working movement of the soil contact element. The drive has an electric motor (3,4,5), a drive frequency of a drive movement produced by the electric motor being equal to a frequency of the working movement of the soil contact element. The invention further relates to a method for operating the provided soil compactor. The provided soil compactor and method can be reliably operated with a small production cost and high efficiency.

IPC 8 full level  
**E02D 3/046** (2006.01)

CPC (source: EP US)  
**E01C 19/35** (2013.01 - EP US); **E01C 19/38** (2013.01 - US); **E02D 3/046** (2013.01 - EP US); **Y10T 74/18208** (2015.01 - EP US)

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 2884005 A1 20150617**; **EP 2884005 B1 20161026**; CN 104711920 A 20150617; CN 104711920 B 20190409;  
DE 102013020857 A1 20150618; US 2015167259 A1 20150618; US 9175447 B2 20151103

DOCDB simple family (application)  
**EP 14003744 A 20141106**; CN 201410766017 A 20141211; DE 102013020857 A 20131212; US 201414560084 A 20141204