

Title (en)  
SOIL COMPACTING DEVICE

Title (de)  
BODENVERDICHTUNGSVORRICHTUNG

Title (fr)  
DISPOSITIF DE COMPACTAGE DU SOL

Publication  
**EP 3456879 A1 20190320 (DE)**

Application  
**EP 18190928 A 20180827**

Priority  
DE 102017121177 A 20170913

Abstract (en)  
[origin: US2019078282A1] A vibratory plate for soil compaction machine has an upper mass and a lower mass that is elastically coupled to the upper mass and that has a soil contact plate. The soil contact plate has a vibration exciter device. At least one energy storage element is situated on the upper mass.

Abstract (de)  
Vibrationsplatte (1) zur Bodenverdichtung mit einer Obermasse (2) und einer mit der Obermasse elastisch gekoppelten, eine Bodenkontaktplatte (4) aufweisenden Untermasse (5). Die Bodenkontaktplatte (4) weist eine Schwingungserregereinrichtung (6) mit wenigstens einem Elektromotor (7) auf. An der Obermasse (2) ist mindestens ein Energiespeicherelement (3) angeordnet.

IPC 8 full level  
**E01C 19/38** (2006.01); **E02D 3/074** (2006.01)

CPC (source: CN EP US)  
**B06B 1/161** (2013.01 - US); **E01C 19/38** (2013.01 - EP US); **E02D 3/046** (2013.01 - CN); **E02D 3/074** (2013.01 - EP US)

Citation (search report)

- [XYI] DE 19953553 A1 20000621 - MOZDZANOWSKI JOACHIM [DE]
- [Y] DE 29804993 U1 19980618 - METZ BERNHARD [DE]
- [Y] EP 0945188 A2 19990929 - MASA AG [DE]
- [Y] WO 0055430 A1 20000921 - ANDERSSON ULF BERTIL [SE]

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EP4269696A1; EP3835484A1; EP4269697A1; EP3744897A4; DE202022002915U1; DE102022110562A1; DE102022110562B4

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 3456879 A1 20190320; EP 3456879 B1 20210519**; CN 109487779 A 20190319; CN 109487779 B 20220107;  
DE 102017121177 A1 20190328; ES 2883654 T3 20211209; US 10344439 B2 20190709; US 2019078282 A1 20190314

DOCDB simple family (application)  
**EP 18190928 A 20180827**; CN 201811060761 A 20180912; DE 102017121177 A 20170913; ES 18190928 T 20180827;  
US 201816129083 A 20180912