

Title (en)

DEVICE FOR GENERATING VIBRATIONS, SOIL COMPACTION MACHINE, AND METHOD FOR OPERATING SAME

Title (de)

EINRICHTUNG ZUM ERZEUGEN VON SCHWINGUNGEN, BODENVERDICHTUNGSMASCHINE UND VERFAHREN ZUM BETRIEB

Title (fr)

DISPOSITIF DE GÉNÉRATION DE VIBRATIONS, MACHINE DE COMPACTAGE DE SOL ET PROCÉDÉ DE FONCTIONNEMENT

Publication

EP 3902957 A1 20211103 (DE)

Application

EP 19832284 A 20191217

Priority

- DE 102018010154 A 20181228
- EP 2019000343 W 20191217

Abstract (en)

[origin: WO2020135922A1] The invention relates to a device for generating vibrations (7) for a soil compaction machine (1), in particular a self-driving soil compaction roller, comprising: a first unbalanced mass (25) and a second unbalanced mass (26), which are each mounted rotatably; a first hydraulic motor (9), which is designed to set the first unbalanced mass (25) in rotation; a planetary gearing (13), which is connected to the first hydraulic motor (9) and via which the second unbalanced mass (26) can be driven; and a second hydraulic motor (10), which is likewise connected to the planetary gearing (13) and which is designed to change the transmission ratio of the first hydraulic motor (9) to the second unbalanced mass (26) via the planetary gearing (13). A third hydraulic motor (11) is also provided, which is likewise connected to the planetary gearing (13) and which is likewise designed to change the transmission ratio of the first hydraulic motor (9) to the second unbalanced mass (26) via the planetary gearing (13). The invention additionally relates to a soil compaction machine (1) and to a method (27, 32) for operating the device or the soil compaction machine (1).

IPC 8 full level

E01C 19/28 (2006.01)

CPC (source: EP US)

B06B 1/162 (2013.01 - US); **E01C 19/286** (2013.01 - EP US); **E02D 3/074** (2013.01 - EP US)

Citation (search report)

See references of WO 2020135922A1

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)

WO 2020135922 A1 20200702; CN 113195832 A 20210730; CN 113195832 B 20221104; DE 102018010154 A1 20200702; EP 3902957 A1 20211103; US 2022127798 A1 20220428

DOCDB simple family (application)

EP 2019000343 W 20191217; CN 201980082227 A 20191217; DE 102018010154 A 20181228; EP 19832284 A 20191217; US 201917312149 A 20191217