

Title (en)

VIBRATION EXCITER FOR SOIL COMPACTING DEVICES

Title (de)

SCHWINGUNGSERREGER FÜR BODENVERDICHTUNGSGERÄTE

Title (fr)

OSCILLATEUR DESTINE A DES ENGINES DE COMPACTAGE DU SOL

Publication

**EP 1534439 A1 20050601 (DE)**

Application

**EP 03793804 A 20030904**

Priority

- DE 10241200 A 20020905
- EP 0309822 W 20030904

Abstract (en)

[origin: WO2004022250A1] A vibration exciter for soil compacting devices, e.g. for a vibration plate, comprises unbalanced shafts (2, 3). These unbalanced shafts are parallel or coaxial to one another, can be driven in opposite directions with the same rotational speed, and each supports a stationary unbalanced mass (4, 5, 16, 17) and an unbalanced mass (6, 18) that can rotatably move relative to the unbalanced shaft (2, 3). The relative position of a respective moving unbalanced mass (6, 16) with regard to the unbalanced shaft (2, 3) supporting the same can be adjusted by an adjusting device (9, 19) so that the centrifugal forces produced by the unbalanced masses during the rotation of the unbalanced shafts (2, 3) are entirely canceled out in every position of rotation of the unbalanced shafts (2, 3). This makes it possible, among other things, to effect a change in the relative position so that the magnitude of a total centrifugal force resulting from the unbalanced masses is proportional to an advancing speed of the soil compacting device.

IPC 1-7

**B06B 1/16**

IPC 8 full level

**B06B 1/16** (2006.01)

CPC (source: EP US)

**B06B 1/166** (2013.01 - EP US)

Citation (search report)

See references of WO 2004022250A1

Cited by

DE102022127864A1; DE102022127864B4

Designated contracting state (EPC)

CH DE GB LI SE

DOCDB simple family (publication)

**WO 2004022250 A1 20040318**; CN 100348339 C 20071114; CN 1678410 A 20051005; DE 10241200 A1 20040325; DE 50306207 D1 20070215; EP 1534439 A1 20050601; EP 1534439 B1 20070103; HK 1082458 A1 20060609; JP 2006501049 A 20060112; JP 4314194 B2 20090812; US 2006067796 A1 20060330

DOCDB simple family (application)

**EP 0309822 W 20030904**; CN 03821030 A 20030904; DE 10241200 A 20020905; DE 50306207 T 20030904; EP 03793804 A 20030904; HK 06103156 A 20060313; JP 2004533476 A 20030904; US 52626505 A 20050302