

Title (en)
Oscillation exciter

Title (de)
Schwingungserreger

Title (fr)
Accélérateur d'oscillations

Publication
EP 2789402 B1 20170517 (DE)

Application
EP 13163222 A 20130410

Priority
EP 13163222 A 20130410

Abstract (en)
[origin: US2014305234A1] A vibration exciter, particularly for a vibration pile driver, includes at least two shafts disposed parallel to one another, as well as at least two imbalance masses, which are attached on one or more of the shafts. A pivot motor provided for adjustment of the relative rotational position of the imbalance masses with regard to one another, includes a pivot motor shaft and a pivot motor housing. The pivot motor shaft is an integral part of one of the shafts, and the rotational position of the pivot motor housing relative to the pivot motor shaft can be changed. The pivot motor is disposed axially offset, in such a manner that it is disposed outside of the regions through which the imbalance masses move.

IPC 8 full level
B06B 1/16 (2006.01); **E02D 7/18** (2006.01); **F15B 15/12** (2006.01)

CPC (source: EP US)
B06B 1/16 (2013.01 - US); **B06B 1/161** (2013.01 - EP US); **B06B 1/166** (2013.01 - EP US); **F15B 15/12** (2013.01 - EP US); **Y10T 74/18344** (2015.01 - EP US)

Citation (opposition)
Opponent : BAUER Maschinen GmbH
• EP 0473449 A1 19920304 - KENCHO KOBE CO LTD [JP]
• EP 2085149 A1 20090805 - ANLAGENTECH BAUMASCH IND [DE]
• DE 4118069 A1 19921203 - HALBROCK UDO [DE]
• EP 0926300 A1 19990630 - PTC [FR]
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• DE 202007005283 U1 20070712 - ABI GMBH [DE]
• US 6345546 B1 20020212 - HOUZE CHRISTIAN [FR]
• "Betriebsanleitung MR 60V/98", RTG RAMMTECHNIK GMBH, 2001, XP055465528

Cited by
EP3165290A1; WO2017076525A1; WO2020224918A1

Designated contracting state (EPC)
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DOCDB simple family (publication)
EP 2789402 A1 20141015; EP 2789402 B1 20170517; US 2014305234 A1 20141016

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EP 13163222 A 20130410; US 201414189017 A 20140225