

Title (en)
Vibration creator

Title (de)
Schwingungserzeuger

Title (fr)
Dispositif de production de vibrations

Publication
EP 2140946 A1 20100106 (DE)

Application
EP 08011830 A 20080701

Priority
EP 08011830 A 20080701

Abstract (en)
The generator has a piston (1) guided in a linear manner and connected with a crank shaft (3) via a connecting rod. The piston is connected with the connecting rod via a piston pin bearing. The crankshaft is connected with the connecting rod via a crank journal (31), and crank journal bearings (21) are movably arranged within the piston pin bearing. The connecting rod is designed as a connecting rod disk (2), which is movably arranged in a slide bearing. A resiliently mounted impact piece is arranged within the piston.

Abstract (de)
Die Erfindung betrifft einen Schwingungserzeuger, umfassend einen linear geführten Kolben (1), der über ein Pleuel (2) mit einer Kurbelwelle (3) verbunden ist, wobei der Kolben mit dem Pleuel über ein Pleuelbolzenlager (14) und die Kurbelwelle (3) mit dem Pleuel (2) über einen Pleuelzapfen (31) verbunden ist, und wobei das Pleuelbolzenlager (21) innerhalb des Pleuelbolzenlagers (14) angeordnet ist.

IPC 8 full level
B06B 1/12 (2006.01); **E01C 19/38** (2006.01)

CPC (source: EP US)
B06B 1/12 (2013.01 - EP US); **Y10T 74/18056** (2015.01 - EP US); **Y10T 74/18344** (2015.01 - EP US)

Citation (applicant)
• DE 19639786 A1 19980402 - UNIV FREIBERG BERGAKADEMIE [DE]
• DE 19639787 A1 19980402 - UNIV FREIBERG BERGAKADEMIE [DE]

Citation (search report)
• [A] US 4607980 A 19860826 - SHILKOV VLADIMIR A [SU], et al
• [A] DE 19639787 A1 19980402 - UNIV FREIBERG BERGAKADEMIE [DE]
• [A] DE 29707017 U1 19970710 - WACKER WERKE KG [DE]

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA MK RS

DOCDB simple family (publication)
EP 2140946 A1 20100106; EP 2140946 B1 20100915; AT E481184 T1 20101015; DE 502008001334 D1 20101028; US 2010000351 A1 20100107; US 8276471 B2 20121002

DOCDB simple family (application)
EP 08011830 A 20080701; AT 08011830 T 20080701; DE 502008001334 T 20080701; US 45684209 A 20090623