

Title (en)
VIBRATOR

Title (de)
SCHWINGUNGSSERREGER

Title (fr)
GENERATEUR DE VIBRATIONS

Publication
EP 0358744 B1 19960626 (DE)

Application
EP 89902787 A 19890303

Priority

- DE 3806897 A 19880303
- EP 8900222 W 19890303

Abstract (en)
[origin: WO8907988A1] A vibrator comprises two axially parallel, interlocking, counterrotating unbalanced shafts. Both the phase relationship of the unbalanced shafts, and hence the direction of the vector of the directed vibrations, and the value of m.r. and hence the displacement of the vibrations of the compression element connected to the vibrator, are variable. To this end, the unbalanced shafts are coupled in a known way by a hub (7) arranged in a rotary or axially fixed manner on one of the unbalanced shafts and which has, in the wall surrounding the shaft (3), a groove (9) extending along the unbalanced shaft (3). A pin (11), which is secured to remain fixed during rotation of the unbalanced shaft (3) and can be adjusted by a servomotor (12, 13), engages slidably in said groove. The direction of driving of the driven unbalanced shaft (2) is reversible. Each unbalanced shaft has a rigidly mounted unbalanced part (15a) and an unbalanced part (15b) which rotates freely in a predetermined angular range between extreme positions delimited by stops (15a, 16). The servomotor (12, 13) is double acting.

IPC 1-7
B06B 1/16

IPC 8 full level
B06B 1/16 (2006.01)

CPC (source: EP US)
B06B 1/164 (2013.01 - EP US); **B06B 1/166** (2013.01 - EP US); **Y10T 74/18344** (2015.01 - EP US)

Cited by
DE102006029241A1; DE10031617A1; DE102004028715B3; DE102005029433A1; DE10241200A1; CN100348339C; DE10038206A1;
DE10038206C2; DE10057807A1; DE10057807C2; US7171866B2; WO0211906A1; EP1335799A1

Designated contracting state (EPC)
CH DE FR GB IT LI NL SE

DOCDB simple family (publication)
WO 8907988 A1 19890908; DE 3806897 A1 19880914; DE 58909695 D1 19960801; EP 0358744 A1 19900321; EP 0358744 B1 19960626;
ES 2010628 A6 19891116; JP 2718415 B2 19980225; JP H02501811 A 19900621; US 5010778 A 19910430

DOCDB simple family (application)
EP 8900222 W 19890303; DE 3806897 A 19880303; DE 58909695 T 19890303; EP 89902787 A 19890303; ES 8900775 A 19890303;
JP 50258089 A 19890303; US 44232189 A 19891026