

Title (en)  
UNBALANCED-MASS VIBRATOR WITH SWITCHING CLUTCH

Publication  
**EP 0037428 B1 19830518 (DE)**

Application  
**EP 80101838 A 19800405**

Priority  
EP 80101838 A 19800405

Abstract (en)  
[origin: US4440034A] An eccentric vibrating machine which includes parallel shafts each carrying an eccentric mass. A gear rotatably journaled on a first of the shafts is drivingly connected to the second shaft for mutual rotation of the gear and second shaft. A shifting coupling is mounted on the first shaft and is selectively engageable with the gear at multiple angular positions around the gear to couple the first shaft to the gear and thereby selectively vary the phase angle relationship of the eccentric masses carried on the two shafts. A manual shifting control device is carried on the first shaft, and can be manually actuated to selectively engage the shifting coupling with the gear.

IPC 1-7  
**E02D 3/074**; B06B 1/16

IPC 8 full level  
**B06B 1/16** (2006.01); **E02D 3/074** (2006.01)

CPC (source: EP US)  
**B06B 1/166** (2013.01 - EP US); **E02D 3/074** (2013.01 - EP US); **Y10T 74/18344** (2015.01 - EP US)

Citation (examination)  
• DE 1634477 A1 19700806 - BUCKAU WOLF MASCHF R  
• DE 2802648 A1 19790726 - GUENTHER WEBER HERSTELLUNG UND  
• GB 1057274 A 19670201 - WACKER HERMANN, et al

Cited by  
FR2538925A1

Designated contracting state (EPC)  
AT DE NL SE

DOCDB simple family (publication)  
**EP 0037428 A1 19811014**; **EP 0037428 B1 19830518**; AT E3452 T1 19830615; DE 3063259 D1 19830707; US 4440034 A 19840403

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**EP 80101838 A 19800405**; AT 80101838 T 19800405; DE 3063259 T 19800405; US 23969881 A 19810302