

Title (en)  
Orbiting mass device for generating vibrations.

Title (de)  
Unwuchtanordnung zur Erzeugung von Vibrationen.

Title (fr)  
Dispositif à balourd pour la génération de vibrations.

Publication  
**EP 0088071 A2 19830907 (DE)**

Application  
**EP 83890022 A 19830217**

Priority  
AT 61182 A 19820217

Abstract (en)  
1. Orbiting mass device for generating vibrations, in particular for road rollers, comprising a rotatably drivable shaft (5), at least one flyweight (8) being drivingly connected with said shaft, a retainer (9) being rigidly connected with the flyweight (8) and located at the opposite side of the shaft (5), whereat the eccentricity of the total gravity center of the rotating masses is displaceable continuously during rotation by an actuating means located outside of the roller body (2), and the flyweight (8) is guided at the shaft (5) axially immovable and radially displaceable, characterised in that two wedges (18, 19) cooperating with the flyweight (8) and arranged at an axial distance from each other are arranged on the shaft (5) axially movable, said wedges (18, 19) being rigidly connected with each other, preferably by rods (26) extending axially, the wedging surface (24, 25) of each wedge (18, 19) being formed by the base of a recess (23) in the circumference of a plate (20, 21), the borders of which recess embrace the retainer (9), and the retainer having the complementary wedging surfaces (16, 17).

Abstract (de)  
Bei einer insbesondere für Straßenwalzen geeigneten Unwuchtanordnung zur Erzeugung von Vibrationen ist wenigstens eine Unwuchtmasse (8) dreh sicher, axial unverschiebbar und radial verlag erbar an einer Welle (5) angeordnet und mit einem in der der Unwuchtmasse (8) gegenüberliegenden Seite der Welle (5) befindlichen Gegenhalter (9) starr verbunden. Zum stufenlosen radialen Verlagern von Unwuchtmasse (8) und Gegenhalter (9) bezüglich der Welle (5) auch während der Rotation derselben und somit zum Verändern der Exzentrizität des Gesamtschwerpunktes der rotierenden Massen ist an der Welle (5) wenigstens ein Keil (18,19) axial verschiebbar gelagert, der mit am Gegenhalter (9) angeordneten Gegenkeiflächen (16,17) zusammenwirkt.

IPC 1-7  
**B06B 1/16**

IPC 8 full level  
**B06B 1/16** (2006.01); **B06B 1/18** (2006.01); **E01C 19/28** (2006.01)

CPC (source: EP)  
**B06B 1/161** (2013.01); **B06B 1/18** (2013.01); **E01C 19/286** (2013.01)

Cited by  
DE4434779A1; US5797699A

Designated contracting state (EPC)  
DE FR SE

DOCDB simple family (publication)  
**EP 0088071 A2 19830907**; **EP 0088071 A3 19840404**; **EP 0088071 B1 19861120**; AT 376728 B 19841227; AT A61182 A 19840515; DE 3367742 D1 19870108

DOCDB simple family (application)  
**EP 83890022 A 19830217**; AT 61182 A 19820217; DE 3367742 T 19830217