

Title (en)

Vibration transmission member and working machine provided with such a member.

Title (de)

Schwingungsübertrager und Bearbeitungsmaschine mit solch einem Übertrager.

Title (fr)

Organe de transmission de vibrations et machine d'usinage comportant un tel organe.

Publication

EP 0063501 A1 19821027 (FR)

Application

EP 82400260 A 19820215

Priority

FR 8103511 A 19810223

Abstract (en)

[origin: US4404449A] A transmission device comprises a hollow casing and a core member disposed in the casing. The core member is free to move in the casing in all directions. It has at least two arms to each of which a driving member or a driven member may be connected. The arms of the core member have a non-aligned angular relationship to one another. The casing incorporates an internal housing whose configuration is a homothetic replica of that of the core member. There is clearance between the core member and the housing in all directions. At least part of each wall of the housing facing one of the arms of the core member is formed with at least one hole or recess which, by means of a network of internal conduits in the casing, can communicate with a source of pressurized supporting fluid. The transmission device is applicable to machine tools using ultrasonic, spark erosion and electrochemical machining processes.

Abstract (fr)

Il s'agit d'un organe de transmission du genre comportant un boîtier creux (13) et un noyau (14) monté flottant dans celui-ci, ledit noyau (14) comportant au moins deux bras (16) à chacun desquels un quelconque organe menant ou mené est susceptible d'être assujéti. Suivant l'invention, les bras (16) du noyau (14) font un angle entre eux, le boîtier (13) comporte intérieurement un logement (20) dont la configuration est une réplique homothétique de celle du noyau (14), un jeu (J) étant prévu en tout sens entre ledit noyau (14) et ledit logement (20) et une partie au moins de chacune des parois dudit logement (20) qui se trouvent en regard des bras du noyau comporte au moins un évidement (37, 77), qui, par un réseau de canalisations internes au boîtier (13), est susceptible d'être mis en communication avec une source de fluide sustentateur sous pression. Application aux machines d'usinage par ultra-sons, électro-érosion ou électro-chimie.

IPC 1-7

B06B 3/00; B23P 1/02

IPC 8 full level

B06B 3/00 (2006.01); **B23H 7/26** (2006.01); **B23H 7/28** (2006.01); **B24B 1/04** (2006.01); **G10K 3/00** (2006.01)

CPC (source: EP US)

B06B 3/00 (2013.01 - EP US); **G10K 3/00** (2013.01 - EP US)

Citation (search report)

- [A] FR 1599285 A 19700715
- [A] BE 820506 A 19750116
- [A] US 3390244 A 19680625 - WEBB ROBERT S

Designated contracting state (EPC)

CH DE FR GB IT

DOCDB simple family (publication)

US 4404449 A 19830913; DE 3260312 D1 19840809; EP 0063501 A1 19821027; EP 0063501 B1 19840704; ES 509809 A0 19830601; ES 8306446 A1 19830601; FR 2500336 A1 19820827; FR 2500336 B1 19840406; JP S57189729 A 19821122; JP S6051975 B2 19851116

DOCDB simple family (application)

US 35023882 A 19820319; DE 3260312 T 19820215; EP 82400260 A 19820215; ES 509809 A 19820222; FR 8103511 A 19810223; JP 2802182 A 19820223