

Title (en)

VIBRATION UNIT AND USE THEREOF IN A VIBRATION ERGOMETER FOR THE LOWER AND UPPER EXTREMITIES

Title (de)

VIBRATIONSEINHEIT SOWIE DEREN VERWENDUNG IN EINEM VIBRATIONSERGOMETER FÜR DIE UNTEREN UND OBEREN EXTREMITÄTEN

Title (fr)

UNITÉ VIBRANTE ET UTILISATION ASSOCIÉE DANS UN ERGOMÈTRE À VIBRATIONS POUR LES EXTRÉMITÉS INFÉRIEURES ET SUPÉRIEURES

Publication

**EP 4304745 A1 20240117 (DE)**

Application

**EP 22709729 A 20220303**

Priority

- EP 21162425 A 20210312
- EP 2022055397 W 20220303

Abstract (en)

[origin: WO2022189253A1] The invention relates to a bicycle ergometer, comprising at least one pedaling device for a user and a vibration unit, wherein: the vibration unit has at least one main shaft (12), which is driven directly or indirectly by a motor (54) and has an eccentric disk (6) fastened thereto; the eccentric disk (6) is rotatably coupled to a connecting rod (1); and the connecting rod (1) transmits, by means of a rod eye (1a) disposed on opposite from the eccentric disk (6), the vibrations to the bearing (29) of the pedaling device such that the vibrations are applied substantially exclusively to this bearing (29) in the vertical direction.

IPC 8 full level

**A63B 21/00** (2006.01); **A63B 22/06** (2006.01)

CPC (source: EP KR US)

**A63B 21/00196** (2013.01 - EP KR US); **A63B 21/0058** (2013.01 - KR); **A63B 22/0605** (2013.01 - EP KR US); **A63B 21/0058** (2013.01 - EP US); **A63B 2022/0611** (2013.01 - EP KR US); **A63B 2220/64** (2013.01 - EP KR)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

**WO 2022189253 A1 20220915**; AU 2022231940 A1 20230914; CN 116981503 A 20231031; EP 4304745 A1 20240117; KR 20230152757 A 20231103; US 2024149107 A1 20240509

DOCDB simple family (application)

**EP 2022055397 W 20220303**; AU 2022231940 A 20220303; CN 202280020836 A 20220303; EP 22709729 A 20220303; KR 20237034331 A 20220303; US 202218281534 A 20220303