

Title (en)
EXERCISE AID DEVICE

Title (de)
TRAININGSHILFSGERÄT

Title (fr)
DISPOSITIF D'AIDE À L'EXERCICE

Publication
EP 2098207 A4 20100331 (EN)

Application
EP 07860076 A 20071225

Priority
• JP 2007074847 W 20071225
• JP 2006348563 A 20061225
• JP 2007068558 W 20070925

Abstract (en)
[origin: US2010022370A1] A housing 1 is provided with a left foot support 2a and a right foot support 2b respectively for mounting user's left foot and right foot. The left foot support 2a and the right foot support 2b are respectively driven to move along a rail which defines a travel path. The housing 1 is provided with a motor 31 having an output shaft 31a which generates a rotary motion which is distributed into two routes by a worm gear 32a and two worm wheels 32b. Rotary motions of each of the worm wheels 32b are respectively transmitted to the left foot support 2a and the right foot support 2b by a crank rod 38, thereby the rotary motions of each of the worm wheels 32b act as driving forces which respectively reciprocate the left foot support 2a and the right foot support 2b. Accordingly, this configuration makes it possible to provide an exercise assisting device being configured to stimulate leg muscles by only one driving force for generation of the driving forces.

IPC 8 full level
A61H 1/02 (2006.01)

CPC (source: EP KR US)
A61H 1/02 (2013.01 - KR); **A61H 1/0237** (2013.01 - EP US); **A63B 22/04** (2013.01 - KR); **A63B 23/04** (2013.01 - KR);
A61H 2201/1215 (2013.01 - EP US); **A61H 2201/14** (2013.01 - EP US); **A61H 2201/1418** (2013.01 - EP US); **A61H 2203/0406** (2013.01 - EP US)

Citation (search report)
• [XY] FR 2691127 A1 19931119 - SARCIRON MICHEL [FR]
• [Y] US 2003036462 A1 20030220 - RAVIKUMAR SUNDARAM [US], et al
• [Y] US 3774597 A 19731127 - ROOT V
• See references of WO 2008081782A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
US 2010022370 A1 20100128; CN 101583334 A 20091118; EP 2098207 A1 20090909; EP 2098207 A4 20100331; JP 2008154879 A 20080710;
JP 5032838 B2 20120926; KR 20090101255 A 20090924; TW 200833393 A 20080816; TW I371294 B 20120901; WO 2008081782 A1 20080710

DOCDB simple family (application)
US 52103107 A 20071225; CN 200780048098 A 20071225; EP 07860076 A 20071225; JP 2006348563 A 20061225;
JP 2007074847 W 20071225; KR 20097014986 A 20071225; TW 96149986 A 20071225