

Title (en)

AUTOMATIC WEIGHT ADJUSTING SYSTEM FOR EXERCISING APPARATUS

Title (de)

AUTOMATISCHES SYSTEM FUR DIE REGELUNG VON GEWICHTE IN UBUNGSGERATEN

Title (fr)

SYSTEME DE REGULATION AUTOMATIQUE DE POIDS POUR APPAREIL D'ENTRAINEMENT PHYSIQUE

Publication

EP 0617986 B1 19960925 (EN)

Application

EP 92921861 A 19921016

Priority

ES 9200072 W 19921016

Abstract (en)

[origin: WO9408663A1] The system comprises a weight (1) which is gradually displaceable along a rocking guide (10) which oscillates when the user performs an exercise by pulling the same weight (1) during the exercise for each determined position of the weight (1) along the rocking guide (10). The displacement of the weight (1) along the rocking guide (10) increases or reduces gradually the weight for the exercise of the user, through a combination of a resistance arm consisting of the weight (1) displaceable along the rocking guide (10) and of two power (4) and resistance (5) wheels associated to each other through a transmission means (7), the power wheel (4) being connected to the user-actuated means (13, 14) and the resistance wheel (5) being connected to the shaft (3) of the rocking guide (10).

IPC 1-7

A63B 21/06

IPC 8 full level

A63B 21/06 (2006.01)

CPC (source: EP)

A63B 21/00076 (2013.01); **A63B 21/0615** (2013.01); **A63B 21/0616** (2015.10); **A63B 21/4035** (2015.10); **A63B 21/4047** (2015.10)

Cited by

US7740568B2; DE19509267A1; EP0732128A3; US6036624A; EP0855198A3; CN110681119A; US10814156B2; US9694228B2

Designated contracting state (EPC)

CH DE FR IT LI

DOCDB simple family (publication)

WO 9408663 A1 19940428; DE 69214162 D1 19961031; DE 69214162 T2 19970410; EP 0617986 A1 19941005; EP 0617986 B1 19960925

DOCDB simple family (application)

ES 9200072 W 19921016; DE 69214162 T 19921016; EP 92921861 A 19921016