

Title (en)

Pace-adjusting mechanism of an elliptical cross trainer

Title (de)

Tempoverstellvorrichtung eines Ellipsen- und Crosstrainers

Title (fr)

Mécanisme de réglage de cadence d'un appareil d'exercice elliptique et au cross

Publication

EP 1870138 A1 20071226 (EN)

Application

EP 06013065 A 20060624

Priority

EP 06013065 A 20060624

Abstract (en)

A pace-adjusting mechanism of an elliptical cross trainer having a U-shaped coupling rod (19) pivotally and laterally disposed on a bottom support frame (18). An electric adjusting mechanism (30) is interposed between the U-shaped coupling rod and the frame unit (10). The electric adjusting mechanism (30) includes a motor (31), a guide spindle sleeve (32) and a telescopic spindle (32). When the telescopic spindle (32) is driven to be moved, it results in the adjustment of the relative angle of the U-shaped coupling rod (19), and wherein an L-shaped connecting rod (20) is pivotally coupled to each top side of the U-shaped coupling rod (19) while the end of the L-shaped connecting rod (20) is pivotally attached to a treadle plank (12) so that the vertical position of the treadle planks (12) is adjustable by changing the angle of the U-shaped coupling rod (19) and, therefore, the adjustment of the exercise pace is achieved.

IPC 8 full level

A63B 23/04 (2006.01)

CPC (source: EP)

A63B 22/001 (2013.01); **A63B 22/0015** (2013.01); **A63B 22/0664** (2013.01); **A63B 21/225** (2013.01); **A63B 2022/067** (2013.01)

Citation (search report)

- [X] US 2005181910 A1 20050818 - WANG LEO [TW], et al
- [X] US 6090014 A 20000718 - ESCHENBACH PAUL WILLIAM [US]
- [A] EP 0966990 A1 19991229 - KUO HAI PIN [TW]
- [A] EP 1568399 A2 20050831 - WANG LEO [TW]

Cited by

EP2210647A1

Designated contracting state (EPC)

DE ES FR GB IT SE

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

EP 1870138 A1 20071226; **EP 1870138 B1 20100929**; DE 602006017190 D1 20101111

DOCDB simple family (application)

EP 06013065 A 20060624; DE 602006017190 T 20060624