

Title (en)
Treadmill with lifting device

Title (de)
Laufband mit Einstellung des Neigungswinkels

Title (fr)
Tapis roulant avec dispositif pour changer l'inclinaison

Publication
EP 1360974 A1 20031112 (EN)

Application
EP 03009082 A 20030419

Priority
US 13955902 A 20020507

Abstract (en)
The present invention relates to a lifting device for a treadmill. A lifting motor (41) with a locating transmission spindle (40) is pivotably connected to the front end of the base frame (20). A socket (42) is movable backward and forward by means of the rotational movement of the locating transmission spindle (40) while the other end of the socket (42) is pivotably connected to the top of an inverted-T-shaped cross bar (26) which extends beyond both sides of the base frame (20) and is connected with a pull rod (27), respectively. The other end of each of pull rods (27) is pivotably connected to the upright support (10), thereby forming a pivot point (28). Accordingly, when the lifting motor (41) is actuated to let the socket (42) rotate by means of the rotational movement of the locating transmission spindle (40), the inverted-T-shaped cross bar (26) and the pull rod (27) will move in the desired direction. Therefore, the base frame (20) will be moved upward and downward on the pivot point (28). <IMAGE>

IPC 1-7
A63B 22/02

IPC 8 full level
A63B 22/02 (2006.01); **A63B 22/04** (2006.01)

CPC (source: EP KR US)
A63B 22/0023 (2013.01 - EP US); **A63B 22/02** (2013.01 - KR); **A63B 22/0235** (2013.01 - EP US); **A63B 2210/50** (2013.01 - EP US)

Citation (search report)
• [X] US 6325745 B1 20011204 - YU JESSICA [TW]
• [A] DE 20110451 U1 20011213 - ALILIFE IND CO [TW]

Designated contracting state (EPC)
DE ES FR GB IT SE

DOCDB simple family (publication)
US 2003139263 A1 20030724; DE 60307715 D1 20061005; DE 60307715 T2 20070823; EP 1360974 A1 20031112; EP 1360974 B1 20060823; ES 2269855 T3 20070401; KR 200322219 Y1 20030806

DOCDB simple family (application)
US 13955902 A 20020507; DE 60307715 T 20030419; EP 03009082 A 20030419; ES 03009082 T 20030419; KR 20030012750 U 20030424