

Title (en)

Traction device for a physical training apparatus

Title (de)

Zugeinrichtung für ein Trainingsgerät zur Körperertüchtigung von Personen

Title (fr)

Dispositif de traction pour un appareil de gymnastique

Publication

**EP 1221331 B1 20040707 (DE)**

Application

**EP 02005682 A 19971122**

Priority

- DE 29620247 U 19961122
- DE 29707943 U 19970429
- EP 97949960 A 19971122

Abstract (en)

[origin: EP1221331A2] The power to a linear drive mechanism (5) is supplied by an accumulator (8), manual control (9) or cable (10). Guide plates (11,18,20) are connected by bars (17,19). The profiled lifting bars (13) and pulley holder bars (15) are pivot mounted on pivot links (12,14,16). Floor supports (23) are joined by pivot links (22) to the linear guides (21) which are contained in sleeves (32). Compression springs (25) press the linear guides upwards when the appliance folds up, and press the foot-plates (24) for stabilising the appliance, onto the ground by means of the rotary profiled bars (27) with the pivot links (26,28). Pivot mounted seats (29) with legs (31) and holder grips (33) form exercise segments (34) for at least six people.

IPC 1-7

**A63B 23/00**

IPC 8 full level

**A63B 23/035** (2006.01); **A63B 21/00** (2006.01); **A63B 21/062** (2006.01); **A63B 21/16** (2006.01); **A63B 23/00** (2006.01); **A63B 21/06** (2006.01); **A63B 71/02** (2006.01)

CPC (source: EP US)

**A63B 21/00** (2013.01 - EP US); **A63B 21/0626** (2015.10 - EP US); **A63B 21/0628** (2015.10 - EP US); **A63B 21/154** (2013.01 - EP US); **A63B 23/00** (2013.01 - EP US); **A63B 21/4017** (2015.10 - EP US); **A63B 2071/025** (2013.01 - EP US); **A63B 2210/56** (2013.01 - EP US); **A63B 2225/10** (2013.01 - EP US); **A63B 2225/105** (2013.01 - EP US)

Cited by

EP1493467A3; DE102010051083A1; DE202010010244U1; DE202010015329U1; DE102011101178A1; WO2012062283A2; US9737760B2

Designated contracting state (EPC)

DE FR GB NL

DOCDB simple family (publication)

**EP 1221331 A2 20020710**; **EP 1221331 A3 20030205**; **EP 1221331 B1 20040707**; AT E224219 T1 20021015; AU 5309098 A 19980622; DE 19781332 D2 19991028; DE 59708289 D1 20021024; DE 59711770 D1 20040812; EP 0958004 A2 19991124; EP 0958004 B1 20020918; ES 2184141 T3 20030401; JP 2001504376 A 20010403; JP 3998158 B2 20071024; US 2004097350 A1 20040520; US 6726601 B1 20040427; WO 9823334 A2 19980604; WO 9823334 A3 19980813

DOCDB simple family (application)

**EP 02005682 A 19971122**; AT 97949960 T 19971122; AU 5309098 A 19971122; DE 19781332 T 19971122; DE 59708289 T 19971122; DE 59711770 T 19971122; DE 9702747 W 19971122; EP 97949960 A 19971122; ES 97949960 T 19971122; JP 52414498 A 19971122; US 30860099 A 19990519; US 44326503 A 20030522