

Title (en)  
EXERCISE APPARATUS

Title (de)  
ÜBUNGSVORRICHTUNG

Title (fr)  
APPAREIL D'EXERCICE

Publication  
**EP 1322385 A4 20061227 (EN)**

Application  
**EP 01977331 A 20010927**

Priority  
• US 0130723 W 20010927  
• US 67893100 A 20001004

Abstract (en)  
[origin: WO0228487A1] Exercise equipment includes a housing (12) having a slot extending along a curved surface of the housing (12) and a curved track extending along the slot defining a curved path, multiple pairs of pulleys (11) positioned along the curved track, each pair of pulleys (11) having passed between them a cable (9) the proximal end of which is located outside the curved track, the distal ends of the cables (9) of which is attached to a source of resistance (13) and attached to a means (100, 102, 103) that enables a user to exert force against the resistance. A movable trolley system (63) in which a pair of pulleys (62) is in the trolley that is fixable at different positions along the curved track (64). Further exercise equipment includes a cable means (68) attached at its distal end to a resistance means (69) cooperating with pulley means (207) for switching between a 2:1 mechanical advantage and a 1:1 ratio. There may be a set of counter-weights (216). Exercise equipment having a bilateral lifting system comprises multiple cables (262, 263) directed by pulleys (264) to their ends where attachments are connected at both ends of each cable with a single weight stack (265) at the mid area of each cable. The cables may pass through a set of multiple pulleys (266) running parallel atop the weight.

IPC 1-7  
**A63B 21/062**

IPC 8 full level  
**A63B 21/062** (2006.01); **A63B 23/12** (2006.01); **A63B 21/06** (2006.01)

CPC (source: EP)  
**A63B 21/156** (2013.01); **A63B 21/4035** (2015.10); **A63B 21/4043** (2015.10); **A63B 23/03508** (2013.01); **A63B 23/03533** (2013.01); **A63B 23/12** (2013.01); **A63B 23/1209** (2013.01); **A63B 21/0628** (2015.10); **A63B 21/4015** (2015.10); **A63B 21/4029** (2015.10); **A63B 23/0355** (2013.01); **A63B 23/03575** (2013.01); **A63B 2071/009** (2013.01)

Citation (search report)  
• [X] GB 2186806 A 19870826 - LILLYWHITES CANTABRIAN LTD  
• [X] US 6102836 A 20000815 - PERSON NORMAN D [US]  
• [X] US 321388 A 18850630  
• [X] US 4549733 A 19851029 - SALYER ALAN [US]  
• See references of WO 0228487A1

Designated contracting state (EPC)  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)  
**WO 0228487 A1 20020411**; AU 9645801 A 20020415; CA 2422317 A1 20020411; CA 2422317 C 20090217; EP 1322385 A1 20030702; EP 1322385 A4 20061227; EP 1923102 A2 20080521; EP 1923102 A3 20080611

DOCDB simple family (application)  
**US 0130723 W 20010927**; AU 9645801 A 20010927; CA 2422317 A 20010927; EP 01977331 A 20010927; EP 08002917 A 20010927