Title (en)

WEIGHT LIFTING SIMULATOR APPARATUS

Title (de)

GEWICHTHEBESIMULATORVORRICHTUNG

Title (fr)

APPAREIL DE SIMULATION DE LEVAGE DE POIDS

Publication

EP 1960062 A1 20080827 (EN)

Application

EP 06817693 A 20061205

Priority

- CA 2006001980 W 20061205
- US 29337405 A 20051205
- US 43416906 A 20060516

Abstract (en)

[origin: US2007129223A1] Weight lifting simulator apparatus includes a primary pneumatic cylinder providing the principal resistance for simulating weight lifting exercise with at least one secondary cylinder in free fluid interconnection with the primary cylinder whereby constant and balanced loading is achieved, with provisions for dynamic simulation of weight inertia effect, and control thereof, as in lifting a real weight. The primary and the secondary cylinders are associated with a guideway, the primary cylinder being fixed to the guideway and the secondary cylinder being slidable relative to the guideway and pivotable relative to the piston rod of the primary cylinder. Variation of the securement position of the primary cylinder on the guideway is available and valving is provided in the fluid interconnection.

IPC 8 full level

A63B 21/062 (2006.01); **A63B 21/02** (2006.01)

CPC (source: EP US)

A63B 21/00069 (2013.01 - EP US); **A63B 21/00072** (2013.01 - EP US); **A63B 21/0083** (2013.01 - EP US); **A63B 21/0087** (2013.01 - EP US); **A63B 21/154** (2013.01 - EP US); **A63B 21/4047** (2015.10 - EP US); A63B 21/4043 (2015.10 - EP US); A63B 23/03566 (2013.01 - EP US)

Cited by

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DOCDB simple family (publication)

US 2007129223 A1 20070607; AT E498434 T1 20110315; CA 2631984 A1 20070614; CA 2631984 C 20140617; EP 1960062 A1 20080827; EP 1960062 A4 20100203; EP 1960062 B1 20110216; WO 2007065255 A1 20070614

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