

Title (en)
Device for physical training of the para-vertebral muscles

Title (de)
Gerät für das körperliche Training der paravertebralen Muskeln

Title (fr)
Appareil pour l'entrainement physique des muscles paravertébraux

Publication
EP 1543867 A3 20050928 (EN)

Application
EP 04028923 A 20041207

Priority
IT BO20030751 A 20031216

Abstract (en)
[origin: EP1543867A2] A device for physical training of mobilisation of para-vertebral muscles comprises at least a frame (2) housing a reacting mechanism (12), supports (3) guiding a shaft (4) supporting a back (6), the back (6) being capable of moving from a rest position to a maximum extension position by rotating around the axis of the shaft (4); the reacting mechanism (12) contrasts the moving of the back (6) from the rest position towards the maximum extension position and causes the return stroke of the back (6) from the maximum extension position to the rest position; a system (16, 17) is further provided for regulating the push due to the reacting mechanism (12), said regulation occurring when the back (6) is in the rest position. <IMAGE>

IPC 1-7
A63B 23/02; **A63B 21/05**

IPC 8 full level
A63B 21/05 (2006.01); **A63B 23/02** (2006.01); **A63B 21/00** (2006.01); **A63B 22/00** (2006.01)

CPC (source: EP)
A63B 21/05 (2013.01); **A63B 21/4047** (2015.10); **A63B 23/0233** (2013.01); **A63B 2225/09** (2013.01)

Citation (search report)

- [XY] US 5100131 A 19920331 - FONG WALTER [US]
- [Y] DE 20105995 U1 20011004 - CHUANG JIN CHEN [TW]
- [Y] US 4123103 A 19781031 - DOERNER FRANK
- [A] US 6340342 B1 20020122 - LEE JASON [TW]
- [A] US 2249750 A 19410722
- [A] US 2208561 A 19400723 - JUNGBAUER FRANK L

Cited by
CN109172279A; WO2014177959A2

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