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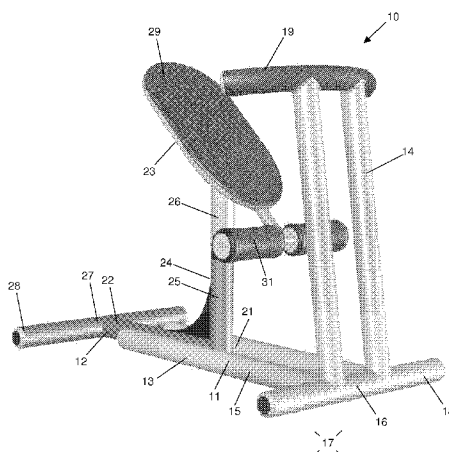
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(54) Title: IMPROVED ABDOMINAL MUSCLE TRAINING APPARATUS



(57) Abstract: Improved abdominal exercise apparatus (10) comprises a support frame (12) and a lever frame (11). The support frame (12) has a base member (22) and a seat portion (23), which is associated with the base member (22) and laterally rotatable relative thereto. The seat portion (23) is adapted to support a user in a half-kneeling position, during the performance of exercise. The lever frame (11) has a first arm (14) adapted for manual operation by the user, and a second arm (15) linked to the base member (22) of the support frame (12). The first (14) and second arms (15) are joined at a junction (16) which forms, or is located adjacent to, a fulcrum for the lever frame (11). In use, the exercise apparatus (10) is operable by the user pushing the first arm (14) away from his or her body to rotate the lever frame (11) about its fulcrum (16), causing the seat portion (23) associated with the base member (22) to lift and/or tilt, so as to exercise the user's abdominal muscles. At the same time, the user may also cause the seat portion (23) to rotate relative to the base member (22) by performing an abdominal twisting motion, so as to exercise his or her obliques and transversus abdominal muscle groups.



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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

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According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

A63B A47C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	DE 20 2006 000913 U1 (KO MING JEN [TW]) 23 March 2006 (2006-03-23) the whole document	1
A	US 2006/116261 A1 (HSIUNG BOB [US] ET AL) 1 June 2006 (2006-06-01) the whole document	1
P,A	WO 2007/026178 A (PROGRESSIVE SPORTS TECHNOLOGIE [GB]; WEIR ROSS JOHN [GB]; CAINE MICHAEL) 8 March 2007 (2007-03-08) cited in the application the whole document	1

☐ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

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Information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
DE 202006000913 U1	23-03-2006	NONE	
US 2006116261 A1	01-06-2006	NONE	
WO 2007026178 A	08-03-2007	US 2007184949 A1	09-08-2007