



(51) International Patent Classification:

A63B 21/072 (2006.01) A63B 23/02 (2006.01)
A63B 21/078 (2006.01) A63B 23/04 (2006.01)
A63B 23/035 (2006.01) A63B 69/00 (2006.01)
A47C 9/00 (2006.01)

(21) International Application Number:

PCT/US2009/064340

(22) International Filing Date:

13 November 2009 (13.11.2009)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

12/271,547 14 November 2008 (14.11.2008) US

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(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ,
CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO,
DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT,
HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP,
KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD,
ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI,
NO, NZ, OM, PE, PG, PH, PL, PT, RO, RS, RU, SC, SD,
SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT,
TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ,
TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV,
MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, SM,
TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW,
ML, MR, NE, SN, TD, TG).

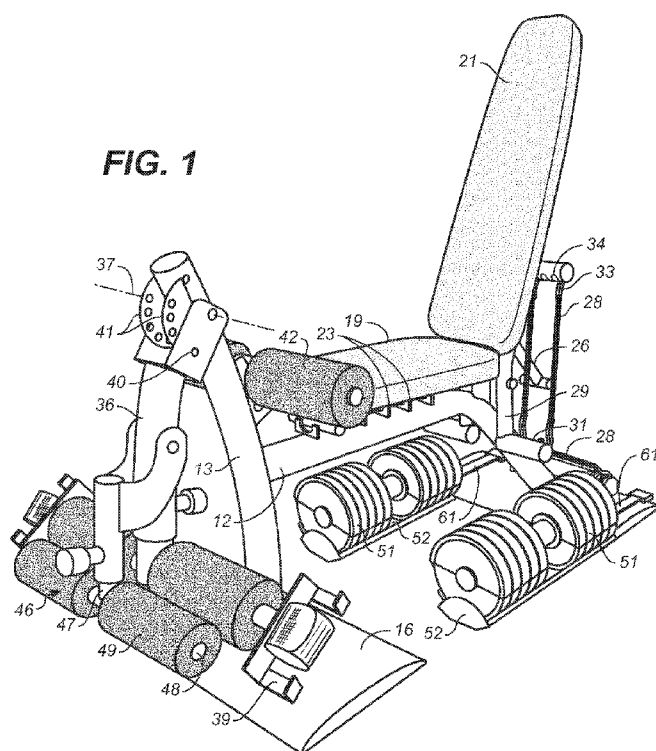
Published:

— with international search report (Art. 21(3))

[Continued on next page]

(54) Title: COMPACT WEIGHT BENCH WITH LIFTING ASSISTANCE

FIG. 1



(57) Abstract: Weight bench having a frame that rests on the floor, a seat mounted on the frame, a backrest pivotally mounted on the frame to the rear of the seat for movement between horizontal, inclined, and declined positions relative to the seat, a plurality of resilient elements which can be selectively connected between the backrest and the frame for lifting the backrest toward the inclined position, a swinging arm pivotally mounted to the frame in front of the seat for movement between raised and lowered positions, a weight bar extending laterally from a free end of the swinging arm for engagement by the legs of a person doing leg exercises, a handle attached to the swinging arm for engagement by the hands of a person sitting on the seat for doing upper body and arm exercises, and weights stored in holders attached to the frame for attachment to the weight bar and for manual use in doing exercises that do not involve the weight bar.



— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*

(88) Date of publication of the international search report:
22 July 2010

INTERNATIONAL SEARCH REPORT

International application No
PCT/US2009/064340

A. CLASSIFICATION OF SUBJECT MATTER

INV. A63B21/072 A63B21/078 A63B23/035 A47C9/00
ADD. A63B23/02 A63B23/04 A63B69/00

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)

EP0-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 01/62353 A1 (SHIFFERAW TESSEMA DOSHO [US]) 30 August 2001 (2001-08-30) page 3, paragraph 2 - page 4, paragraph 1 page 11, paragraph 1 - page 12, paragraph 2; figures -----	1-12
Y	EP 1 498 158 A1 (CHEN PAUL [CA]) 19 January 2005 (2005-01-19) the whole document -----	1-12
Y	WO 2005/118077 A2 (SHIFFERAW TESSEMA DOSHO [US]) 15 December 2005 (2005-12-15) the whole document -----	1-12
Y	WO 2006/083867 A2 (SHIFFERAW TESSEMA DOSHO [US]) 10 August 2006 (2006-08-10) page 3, line 11 - page 7, line 2; figures 1-8 ----- -/--	4

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

☒ See patent family annex.

* Special categories of cited documents :

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"E" earlier document but published on or after the international filing date

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"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

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Date of the actual completion of the international search

18 February 2010

Date of mailing of the international search report

07/06/2010

Name and mailing address of the ISA/

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INTERNATIONAL SEARCH REPORT

International application No
PCT/US2009/064340

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5 810 702 A (WILKINSON WILLIAM T [US]) 22 September 1998 (1998-09-22) figures 1,45,46,48 -----	9-10
A	US 2006/035766 A1 (TOWLEY CARL K III [US] ET AL TOWLEY III CARL K [US] ET AL) 16 February 2006 (2006-02-16) the whole document -----	5-6

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2009/064340

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fees, this Authority did not invite payment of additional fees.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-12

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
- ☐ The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-12

Swinging arm for exercising arms and legs

2. claims: 13-26

Supports and leg for improving safety and handling of the weight bench

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2009/064340

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 0162353	A1	30-08-2001	NONE	
EP 1498158	A1	19-01-2005	US 2005003937 A1	06-01-2005
WO 2005118077	A2	15-12-2005	CN 1980713 A	13-06-2007
			EP 1748824 A2	07-02-2007
			US 2005266972 A1	01-12-2005
WO 2006083867	A2	10-08-2006	NONE	
US 5810702	A	22-09-1998	NONE	
US 2006035766	A1	16-02-2006	WO 2006023179 A2	02-03-2006