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(54) Title: FOLDABLE EXERCISE APPARATUS

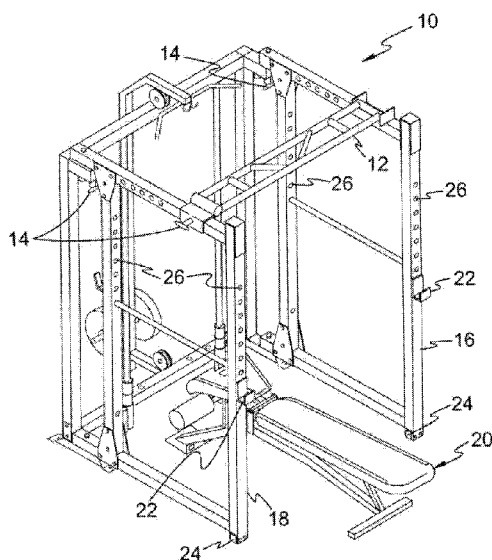


Fig. 1

(57) Abstract: A foldable exercise apparatus having a rigid frame back wall, with hinged rigid frame side walls with one of the side walls having a hinged cross brace that is fastenable to the opposing side wall. Also provided is a collapsible bench attachable to the exercise apparatus in its folded state. Further provided are wheels, with each wheel mounted to a respective side wall front end to aid in deploying and folding the side walls. The exercise apparatus rigid frame provides a plurality of exercise equipment apertures to support the storage of exercise equipment, components until needed.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/IB2014/001010

A. CLASSIFICATION OF SUBJECT MATTER

A63B 21/06 (2006.01) A63B 21/062 (2006.01) A63B 21/00 (2006.01) A63B 22/00 (2006.01) A63B 23/00 (2006.01)

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)

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 practicable, search terms used)

EPODOC, WPI, Epsace:

IPC & CPC: A63B22, A63B21 and A63B23

Keywords: cage, rack, smith machine, squat, power, foldable, compact, collapsable and like terms.

Google, Google Patents, Google Images:

Foldable weight machine, Foldable squat cage, Applicant/Inventor

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
	Documents are listed in the continuation of Box C	

☒ Further documents are listed in the continuation of Box C

☒ See patent family annex

* "A"	Special categories of cited documents: document defining the general state of the art which is not considered to be of particular relevance	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E"	earlier application or patent but published on or after the international filing date	"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
"L"	document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"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
"O"	document referring to an oral disclosure, use, exhibition or other means	"&"	document member of the same patent family
"P"	document published prior to the international filing date but later than the priority date claimed		
Date of the actual completion of the international search 3 September 2014		Date of mailing of the international search report 03 September 2014	
Name and mailing address of the ISA/AU AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA Email address: pct@ipaustalia.gov.au		Authorised officer Alexander Mason AUSTRALIAN PATENT OFFICE (ISO 9001 Quality Certified Service) Telephone No. 0262104087	

INTERNATIONAL SEARCH REPORT		International application No.
C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		PCT/IB2014/001010
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6685601 B1 (KNAPP) 03 February 2004 Figures, Col. 5, lines 43-51	1, 4-5, 7-8
A	US 2009/0181833 A1 (CASSIDY at al.) 16 July 2009 Figures	1-10
A	US 6299568 B1 (PROK) 09 October 2001 Figures	1-10
A	US 2002/0091043 A1 (REXACH) 11 July 2002 Figures	1-10

Form PCT/ISA/210 (fifth sheet) (July 2009)

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:
the subject matter listed in Rule 39 on which, under Article 17(2)(a)(i), an international search is not required to be carried out, including
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 Supplemental Box for Details

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 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.:
1-10

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.

Supplemental Box**Continuation of: Box III**

This International Application does not comply with the requirements of unity of invention because it does not relate to one invention or to a group of inventions so linked as to form a single general inventive concept.

This Authority has found that there are different inventions based on the following features that separate the claims into distinct groups:

- Claims 1-10 relate to a foldable exercise apparatus. The feature of a cross brace attached or attachable to the top portion of first and second rigid frame side wall respectively is specific to this group of claims.
- Claims 11-18 relate to an exercise apparatus. The feature of a first and second guide rail having carriages and an elongate bar ends proximate the carriages is specific to this group of claims.

PCT Rule 13.2, first sentence, states that unity of invention is only fulfilled when there is a technical relationship among the claimed inventions involving one or more of the same or corresponding special technical features. PCT Rule 13.2, second sentence, defines a special technical feature as a feature which makes a contribution over the prior art.

When there is no special technical feature common to all the claimed inventions there is no unity of invention.

In the above groups of claims, the identified features may have the potential to make a contribution over the prior art but are not common to all the claimed inventions and therefore cannot provide the required technical relationship. Therefore there is no special technical feature common to all the claimed inventions and the requirements for unity of invention are consequently not satisfied *a priori*.

INTERNATIONAL SEARCH REPORT Information on patent family members		International application No. PCT/IB2014/001010	
This Annex lists known patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.			
Patent Document/s Cited in Search Report		Patent Family Member/s	
Publication Number	Publication Date	Publication Number	Publication Date
US 6685601 B1	03 February 2004	US 7488277 B1	10 Feb 2009
		US 2009143203 A1	04 Jun 2009
US 2009/0181833 A1	16 July 2009	US 8506459 B2	13 Aug 2013
		US 8500358 B1	06 Aug 2013
US 6299568 B1	09 October 2001	None	
US 2002/0091043 A1	11 July 2002	CN 1482935 A	17 Mar 2004
		EP 1343562 A2	17 Sep 2003
		JP 2004520897 A	15 Jul 2004
		MX PA03005702 A	03 Dec 2004
		WO 02056973 A2	25 Jul 2002
End of Annex			
Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001. Form PCT/ISA/210 (Family Annex)(July 2009)			