

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
14 February 2008 (14.02.2008)

PCT

(10) International Publication Number  
**WO 2008/018773 A3**

(51) International Patent Classification:  
A63B 69/00 (2006.01)

(21) International Application Number:  
PCT/KR2007/003850

(22) International Filing Date: 10 August 2007 (10.08.2007)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
10-2006-0075534 10 August 2006 (10.08.2006) KR

(71) Applicants and

(72) Inventors: **CHOI, Chang Ho** [KR/KR]; Suite 3607  
Pyeongchon Acro Tower B, 1591 Gwangyang-dong, Dong-  
gan-gu, Anyang-si, Gyeonggi-do 431-060 (KR). **CHOI,  
Seung Ho** [KR/KR]; 69-21, Dowon-dong, Jung-gu, In-  
cheon 400-140 (KR).

(74) Agent: **PAIK, Nam-Hoon**; 14th Fl. KTB Network Bldg.,  
826-14, Yeoksam-dong, Kangnam-ku, Seoul 135-769  
(KR).

(81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,

AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH,  
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, 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, PG, PH, PL, PT, RO,  
RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

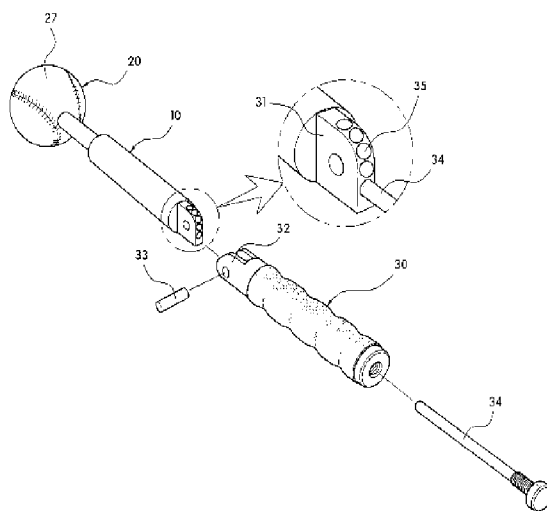
(84) Designated States (unless otherwise indicated, for every  
kind of regional protection available): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,  
FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL,  
PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM,  
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the  
claims and to be republished in the event of receipt of  
amendments

(88) Date of publication of the international search report:  
24 April 2008

(54) Title: BASEBALL THROWING TRAINING AND EXERCISE APPARATUS



(57) Abstract: The present invention relates to a baseball throwing training and exercise apparatus, and more particularly, to such a baseball throwing training and exercise apparatus which can achieve an effect of a maximally equivalent level to that of a training where baseball players throw a ball to each other personally, which can simply conduct a baseball throwing exercise anywhere and anytime, which can concentratingly train the muscle strength of a hand and a wrist used during the actual ball throwing action, and which can concentratingly practice up to the motion of a detailed level. The baseball throwing training and exercise apparatus comprises: an elongated rod (10); a rotatable ball (20) rotatably coupled to one end of the support rod (10) and having the shape of a baseball; and a handle grip (30) coupled to the other end of the support rod (10) in such a fashion as to be adjustable in angle together with the support rod (10).



WO 2008/018773 A3

## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/KR 2007/003850

## A. CLASSIFICATION OF SUBJECT MATTER

IPC<sup>8</sup>: **A63B 69/00** (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)

IPC<sup>8</sup>: **A63B**

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)

WPI, EPODOC, Fulltext databases

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 3152803 A (SAIN, JR.) 13 October 1964 (13.10.1964) <i>the whole document</i>	1, 10, 11
	--	
A	US 2005/037897 A1 (CHEN) 17 February 2005 (17.02.2005) <i>abstract, claims, figures</i>	1, 10, 11
	--	
A	US 2002/020217 A1 (IMATOH) 21 February 2002 (21.02.2002) <i>abstract, claims, figures</i>	1, 10, 11
	--	
A	US 6024660 A (ROMANICK) 15 February 2000 (15.02.2000) <i>abstract, claims, figures</i>	1, 10, 11
	---	

 Further documents are listed in the continuation of Box C. See patent family annex.

## \* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

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

"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)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"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

"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

"&amp;" document member of the same patent family

Date of the actual completion of the international search  
17 January 2007 (17.01.2007)Date of mailing of the international search report  
14 February 2008 (14.02.2008)Name and mailing address of the ISA/ AT  
**Austrian Patent Office**  
Dresdner Straße 87, A-1200 ViennaAuthorized officer  
**FELLNER T.**

Facsimile No. +43 / 1 / 534 24 / 535

Telephone No. +43 / 1 / 534 24 / 345

**INTERNATIONAL SEARCH REPORT**  
Information on patent family members

International application No.  
**PCT/KR2007/003850**

Patent document cited in search report			Patent family member(s)			Publication date
US	A	3152803	US	A	3152803	1964-10-13
US	A	2005037897	US	A1	2005037897	2005-02-17
US	A	2002020217	US	A1	2002020217	2002-02-21
			JP	A	2001218881	2001-08-14
US	A	6024660	WO	A1	9925428	1999-05-27
			JP	T	2001523495T	2001-11-27
			CA	A1	2310829	1999-05-27
			AU	A	9485498	1999-06-07
			US	A	6024660	2000-02-15