(19) Europäisches Patentamt
European Patent Office
Office européen des brevets

(11) EP 2 098 335 A3

(12) EUROPEAN PATENT APPLICATION

(88) Date of publication A3:
22.12.2010 Bulletin 2010/51

(43) Date of publication A2:
09.09.2009 Bulletin 2009/37

(21) Application number: **09154246.4**

(22) Date of filing: **03.03.2009**

(51) Int Cl.:
B25B 13/06 *(2006.01)* ***B25B 13/48*** *(2006.01)*
B25B 23/12 *(2006.01)* ***B25B 23/00*** *(2006.01)*

(84) Designated Contracting States:
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK TR
Designated Extension States:
AL BA RS

(30) Priority: **05.03.2008 TW 97203727 U**

(71) Applicant: **Lin, Wen-Hsiung**
Taiping City, Taichung County 411 (TW)

(72) Inventor: **Lin, Wen-Hsiung**
Taiping City, Taichung County 411 (TW)

(74) Representative: **Strehl Schübel-Hopf & Partner**
Maximilianstrasse 54
80538 München (DE)

(54) Improved magnetic socket structure

(57) An improved magnetic socket structure includes: a body (11), having a force exerted end (12) and an acting end (14); a guide element (21) for receiving the force exerted end (12) of the body (11), and including a guide penetrating hole (22); a magnetic module (31), having a position limit portion (33) at an end and a magnetic portion at another end, wherein the position limit portion (33) is embedded into the guide penetrating hole (22) of the guide element (21), and the external periphery of the position limit portion (33) is matched precisely with the hole diameter of the guide penetrating hole (22), such that the position limit portion (33) can be moved linearly along the guide penetrating hole (22), and an elastic element (36) is installed between the magnetic portion and the guide element (21), such that if a force is exerted onto the magnetic module (31), the guide penetrating hole (22) will guide the position limit portion (33) to move along a sliding path to assure that the magnetic module (31) will not deviated from a moving path when a force is exerted onto the position limit portion (33).

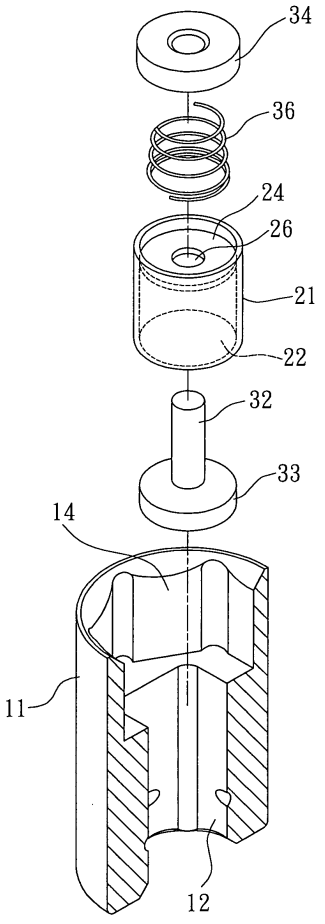

FIG. 1

EP 2 098 335 A3

Europäisches Patentamt
European Patent Office
Office européen des brevets

EUROPEAN SEARCH REPORT

Application Number
EP 09 15 4246

DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
A	US 2005/014596 A1 (HSIEN CHIH-CHING [TW]) 20 January 2005 (2005-01-20) * the whole document *	1	INV. B25B13/06 B25B13/48 B25B23/12
A	US 2 488 894 A (STEPHEN BARRETT JOHN) 22 November 1949 (1949-11-22) * the whole document *	1	B25B23/00
A	US 2 630 036 A (BROWN RAY M) 3 March 1953 (1953-03-03) * the whole document *	1	
A	US 5 249 489 A (WEISMAN ALAN S [US]) 5 October 1993 (1993-10-05) * the whole document *	1	
			TECHNICAL FIELDS SEARCHED (IPC)
			B25B

The present search report has been drawn up for all claims

Place of search	Date of completion of the search	Examiner
Munich	10 November 2010	Kühn, Thomas

CATEGORY OF CITED DOCUMENTS

X : particularly relevant if taken alone
Y : particularly relevant if combined with another document of the same category
A : technological background
O : non-written disclosure
P : intermediate document

T : theory or principle underlying the invention
E : earlier patent document, but published on, or after the filing date
D : document cited in the application
L : document cited for other reasons

& : member of the same patent family, corresponding document

1

EPO FORM 1503 03.82 (P04C01)

ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO. EP 09 15 4246

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

10-11-2010

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2005014596 A1	20-01-2005	NONE	
US 2488894 A	22-11-1949	NONE	
US 2630036 A	03-03-1953	NONE	
US 5249489 A	05-10-1993	NONE	

EPO FORM P0459

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82