

Title (en)  
Improved magnetic socket structure

Title (de)  
Verbesserte Magnetbuchsenstruktur

Title (fr)  
Structure de douille magnétique améliorée

Publication  
**EP 2098335 A3 20101222 (EN)**

Application  
**EP 09154246 A 20090303**

Priority  
TW 97203727 U 20080305

Abstract (en)  
[origin: EP2098335A2] 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).

IPC 8 full level  
**B25B 13/06** (2006.01); **B25B 13/48** (2006.01); **B25B 23/00** (2006.01); **B25B 23/12** (2006.01)

CPC (source: EP)  
**B25B 13/06** (2013.01); **B25B 23/0057** (2013.01); **B25B 23/12** (2013.01)

Citation (search report)  
• [A] US 2005014596 A1 20050120 - HSIEN CHIH-CHING [TW]  
• [A] US 2488894 A 19491122 - STEPHEN BARRETT JOHN  
• [A] US 2630036 A 19530303 - BROWN RAY M  
• [A] US 5249489 A 19931005 - WEISMAN ALAN S [US]

Cited by  
DE102018128548A1; TWI472411B

Designated contracting state (EPC)  
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 state (EPC)  
AL BA RS

DOCDB simple family (publication)  
**EP 2098335 A2 20090909; EP 2098335 A3 20101222; EP 2098335 B1 20121128; TW M342237 U 20081011**

DOCDB simple family (application)  
**EP 09154246 A 20090303; TW 97203727 U 20080305**