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<div> <div>(30)</div> <div>Priority: <b>14.12.2012    CN 201220690169 U</b></div> </div>	<div> <div>(74)</div> <div>           Representative: <b>Zinnecker, Armin et al</b>  <b>Lorenz Seidler Gossel</b>  <b>Rechtsanwälte Patentanwälte</b>  <b>Partnerschaft mbB</b>  <b>Widenmayerstraße 23</b>  <b>80538 München (DE)</b> </div> </div>
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Buffering hinge for a furniture door

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The present invention relates to a buffering hinge for a furniture door comprising a fixing member, a grooved cup-shaped support (1), an outer rocker arm (7), an inner rocker arm (5), a connecting rod structure (10), a return spring (8) and a hydraulic cushioning cylinder (13), wherein a shaft (11) is fixed to the casing (18), and the connecting rod structure(10) is provided with elongated holes (102) which extends at an angle to the horizontal direction and through which the shaft (11) extends slidably; a first boss (101) and a second boss (103) are arranged on each of the two side walls of the connecting rod structure (10); the outer rocker arm (7) is rotatably connected with the casing (18) at one end and rotatably connected with the cup-shaped support (1) at the other end via one leg of an U-shaped pin (2); two connecting walls extending outward are arranged on one end of the inner rocker arm (5) and rotatably connected with one end of the casing (18) and rotatably connected with one end of the connecting rod structure (10); each of the two connecting walls is provided with a recess into which a corresponding first boss (101) may be moved, and the other end of the inner rocker arm (5) is rotatably connected with the cup-shaped support (1) via the other leg of the U-shaped pin (2); one end of the piston rod of the hydraulic cushioning cylinder (13) is rotatably connected with the other end of the connecting rod structure (10). The present invention has advantages over the prior art, including lower resistance in operation, simpler structure, easiness of manufacture and installation, lower manufacturing costs etc.

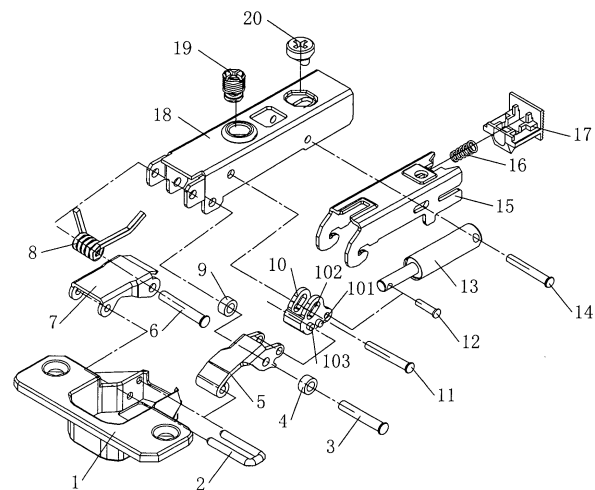


FIG. 1



## EUROPEAN SEARCH REPORT

Application Number  
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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	CN 201 635 559 U (ZHONGQIAO HARDWARE & ELECTRICAL APPLIANCE MFG CO LTD) 17 November 2010 (2010-11-17) * figures *	1-4	INV. E05F5/00
A	CN 201 416 326 Y (FOSHAN CITY SHUNDE DISTRICT ADAMS METALS FABRICATE CO LTD) 3 March 2010 (2010-03-03) * figures *	1-4	
			TECHNICAL FIELDS SEARCHED (IPC)
			E05F
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 14 September 2017	Examiner Witasse-Moreau, C
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			

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**ANNEX TO THE EUROPEAN SEARCH REPORT  
ON EUROPEAN PATENT APPLICATION NO.**

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5 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  
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10	Patent document cited in search report	Publication date	Patent family member(s)	Publication date
	CN 201635559 U	17-11-2010	NONE	
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15	CN 201416326 Y	03-03-2010	NONE	
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