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#### (54)A door catch assembly

(57)A door catch assembly 10 for a door comprises a magnetic catch part which comprises a magnetic part supported by a housing part so that the magnetic part is free to rotate relative to the housing part about a single pivot point through at least two degrees of freedom. The housing part comprises a fixed part 110 and a moving part 120, the moving part 120 having an outer wall 121 that is curved to define a part of a sphere and being located within a recess in the fixed part which forms a complimentary concave bearing surface 111, engagement between the moving part 120 and fixed part 110 constraining the movement of the magnetic part. The underside of the moving part 120 is conical and the lower end of the recess in the fixed part is closed by a backing surface 300, such that in use a part of the underside of the moving part 120 may contact a part of the backing surface 300 to resist axial loads applied to the moving part.

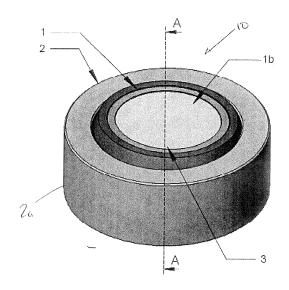


Figure 1



## **EUROPEAN SEARCH REPORT**

Application Number

EP 12 15 4126

	DOCUMENTS CONSID	EKED IOB	E RELEVAN	<u> </u>			
Category	Citation of document with in of relevant pass		appropriate,		elevant claim	CLASSIFICATION OF THE APPLICATION (IPC)	
A	FR 1 366 145 A (-) 10 July 1964 (1964- * the whole documer	-07-10) nt *	-10)			INV. E05C19/00 E05B47/00	
A	JP H09 60390 A (SHI 4 March 1997 (1997- * abstract *		EISAKUSHO KH	() 1-4	1		
A	JP S57 148315 A (TA 13 September 1982 ( * abstract *				1		
A	GB 2 336 247 A (W E [GB]) 13 October 19 * abstract *	E VEALE & ( 999 (1999-1	CO LIMITED 10-13)	1-4	1		
						TECHNICAL FIELDS SEARCHED (IPC)	
						E05C F24C H01F	
	The present search report has	been drawn up fo	or all claims				
	Place of search		f completion of the searc	h I		Examiner	
The Hague			·			uyplant, Lieve	
CATEGORY OF CITED DOCUMENTS  X: particularly relevant if taken alone Y: particularly relevant if combined with anoth		her	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				
A : tech O : non	ment of the same category nological background -written disclosure mediate document					, corresponding	

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

EP 12 15 4126

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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.

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	Patent document cited in search report		Publication date	Patent family member(s)			Publication date	
FR 1	366145	Α	10-07-1964	NONE				
JP H	0960390	Α	04-03-1997	JP JP	3083252 I H0960390 /		04-09-2000 04-03-1997	
JP S	57148315	Α	13-09-1982	NONE				
GB 2	336247	Α	13-10-1999	NONE				

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