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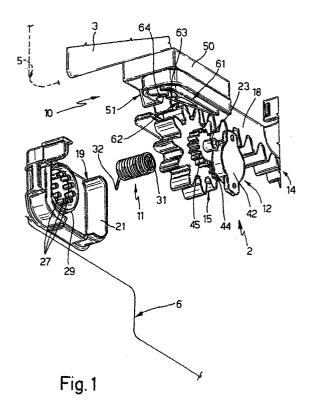
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- (54) Device for automatically extracting a dispenser drawer of an electrical household appliance such as a washing machine, and electric household appliance featuring such a device
- (57) A device for automatically extracting from a seat (4) a drawer (3) for dispensing detergent and/or other process fluids of an electric household appliance; the device including a release device (10), elastic means (11) for pushing the drawer from the seat into an extracted position, and decelerating means (12) for opposing the movement of the drawer; wherein the elastic means act on a rotary-to-linear motion conversion device (14) located between the drawer (3) and a fixed member of the seat (4) to produce a linear movement of the seat into the extracted position upon release of the elastic means (11); and wherein the decelerating means act on a rotary member (15) of the rotary-to-linear motion conversion device (14).





EUROPEAN SEARCH REPORT

Application Number

EP 03 02 1226

	DOCUMENTS CONSID	ERED TO BE RELEV.	ANT					
Category	Citation of document with in of relevant pass	dication, where appropriate, ages		Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.CI.7)			
X	US 4 828 344 A (OMA 9 May 1989 (1989-05 * the whole documen	-09)	1	,2,6-8	D06F39/02			
X	US 4 494 806 A (WIL 22 January 1985 (1984) * the whole document	85-01-22)	AL) 1	,7-10				
Α	US 5 675 994 A (GWE 14 October 1997 (19 * the whole documen	97-10-14)		,12				
					TECHNICAL FIELDS SEARCHED (Int.CI.7) D06F A47B			
1	The present search report has b	een drawn up for all claims						
	Place of search	Date of completion of the	search	1	Examiner			
	The Hague	30 Septembe	r 2004	Nor	man, P			
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 E: earlier after th er D: docum L: docum	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 8: member of the same patent family, corresponding document					

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

EP 03 02 1226

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30-09-2004

Patent document cited in search report		Publication date	Patent family member(s)			Publication date	
us	4828344	А	09-05-1989	JP JP JP	1624338 2050275 61078980	В	18-11-19 01-11-19 22-04-19
US	4494806	Α	22-01-1985	NONE			
US	5675994	A	14-10-1997	KR CN JP JP	149912 1141371 2709294 9000781	A,B B2	15-05-19 29-01-19 04-02-19 07-01-19

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