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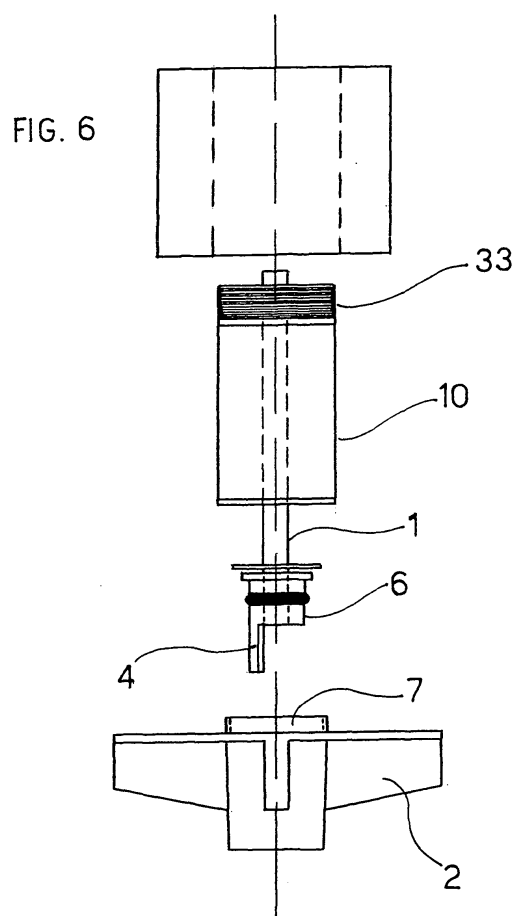
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(54) **Washing machine with improved synchronous motor**

(57) A washing machine is provided with a drain pump comprising a synchronous motor and an impeller (2); the shaft (1) of the motor is provided with an appropriate flywheel (33) and has an eccentric protrusion (4) at the extremity thereof, and said impeller, in its central zone where it is fitted onto said shaft, is provided with a ring-shaped (5) cavity extending circularly only along a definite arc portion (A) and adapted to accommodate said eccentric protrusion. This eccentric protrusion is in turn so sized with respect to said cavity as to be capable of freely rotating for a pre-definable arc (B) within said cavity.





European Patent  
Office

# EUROPEAN SEARCH REPORT

Application Number  
EP 03 02 3702

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A	----- W0 99/48189 A (ASKOLL HOLDING S R L [IT]; MARIONI ELIO [IT]) 23 September 1999 (1999-09-23) * figure 10 *	1-7	
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			TECHNICAL FIELDS SEARCHED (IPC)
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The present search report has been drawn up for all claims			
Place of search <b>Munich</b>		Date of completion of the search <b>23 November 2006</b>	Examiner <b>DIAZ, M</b>
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  
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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  
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