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Speed variator for laundry washing machine.

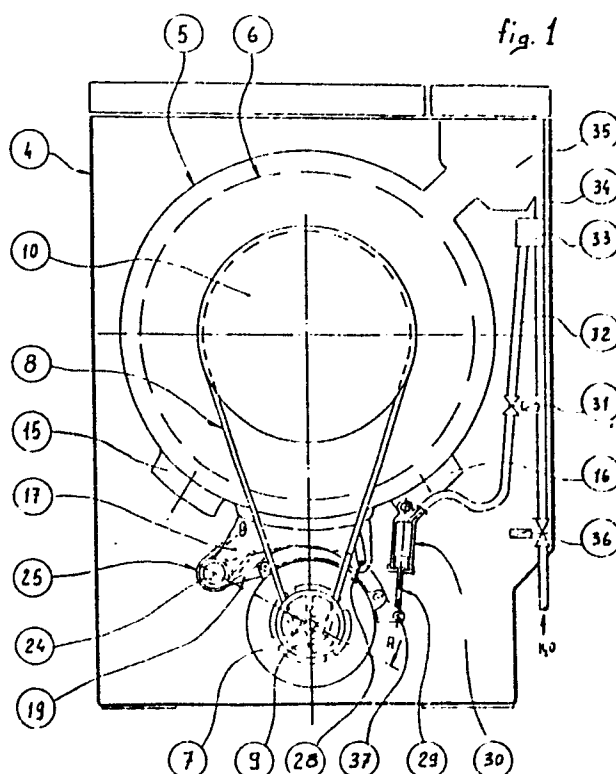
A speed variator for a laundry washing machine comprising a drum (6) mounted for rotation in a laundering tub (5) and adapted to be rotated at different speeds by a motor (7) via a transmission belt (8) interconnecting a driving pulley (9) of motor (7) and a driven pulley (10) associated with the drum. The driving pulley (9) of the speed variator is of the variable-diameter type and cooperates with a number of radially expandable flyweights (14).

The driving pulley (9) and the motor (7) are carried by a rotatable carrier Arm (19) having one of its ends hingedly connected to a lower portion of the tub (5), while its other end is connected to a piston (29) mounted for reciprocating displacement to different operating positions in a cylinder (39) connected through a solenoid valve (31) to the water supply circuit of the machine.

The carrier arm (19) is biased by a torsion spring (25) to a position in which the driving pulley (9) is effective to keep the belt (8) under tension against the action caused by the radial expansion of the flyweights (14).

The piston (29) acts on the carrier arm (19) in a manner to interdict or to permit the radial expansion of the flyweights (14) to varying degrees depending on the respective position of the piston.

As a result, the effective diameter of the driving pulley (9) is varied by different degrees, permitting the drum (6) to be rotated at variable speeds.





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EUROPEAN SEARCH REPORT

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Application number

EP 85 11 1174

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. 4)
Y	FR-A-1 238 265 (ESSWEIN & CIE) * Whole document *	1	D 06 F 37/36
Y	GB-A-1 249 759 (SIEMENS AKTIENGESELLSCHAFT) * Page 1, lines 48-52, 58-75, 91-96; page 2, lines 1-6, 98-102 *	1	
A		3	
A	US-A-3 091 974 (BRILL et al.) * Figures *	2, 4	
A	DE-A-1 460 850 (ROBERT BOSCH GmbH) * Figures *	2, 4	
A	FR-A-2 138 668 (SIEMENS-ELECTROGERÄTE) * Page 3, lines 5-10, 30-40 *	1	D 06 F F 16 H
P, D A	EP-A-0 147 625 (INDUSTRIE ZANUSSI S.p.A.) * Claims 1-3 *	1	
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 06-05-1987	Examiner D HULSTER E.W.F.
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			