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(54) Safety switching apparatus against dry operation of electrical heating resistances, particularly for washing machines and dishwashers

(57) The invention relates to a safety switching apparatus against dry operation of electrical resistances, particularly for washing machines and dishwashers, with electromechanical or electronic control systems and level switches for monitoring the water level. Security against dry operation of the heating resistances is considerably improved in that two level switches (NV1, NV2) monitor the normal water level and, incorporated in series, control a switch element (R), in that the switch element triggers the control motor (StM) and switches off the water intake valve (WV), and in that the control motor, after expiry of a predetermined time, by means of control contacts, switches the heating resistance (H) into parallel with the switch element in the heating and washing stage following the water intake stage.

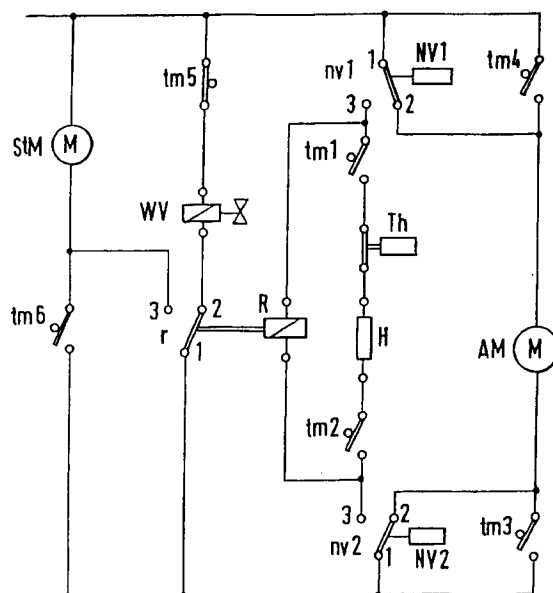


FIG.1

EP 0 740 008 A3



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EUROPEAN SEARCH REPORT

Application Number
EP 96 10 5206

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.6)
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A	DE 15 85 767 A (KIENINGER & OBERGFELL) * claims; figure *	1,4	
The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (Int.Cl.6)
			D06F A47L
Place of search		Date of completion of the search	Examiner
THE HAGUE		14 November 1997	Courrier, G
<p>CATEGORY OF CITED DOCUMENTS</p> <p>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</p> <p>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</p>			

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