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54 **An arrangement for controlling the operation of switch contacts.**

57 **An arrangement for controlling the operation of switch contacts includes means for providing a first signal indicating that operation of the switch contacts is required and timing means arranged to provide a second signal at a time indicative of a zero crossing of an alternating voltage being switched by the switch contacts. Delay means are arranged to delay the second signal to compensate for the mechanical and/or electrical inertia of an operating means for the switch contacts. The operating means is then energised in response to the first and second signals so that operation of the switch contacts will occur at or near to a zero crossing of the alternating voltage.**



DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (Int. Cl. 3)
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	
	<p><u>GB - A - 1 019 325</u> (THE SUPERIOR ELECTRIC CO.) * claim 1; page 1, lines 47 to 75; page 3, lines 38 to 45; fig. *</p> <p>--</p> <p><u>US - A - 3 161 819</u> (A.R. PERRINS) * claim 1; fig. 1 *</p> <p>--</p> <p><u>US - A - 3 265 933</u> (E.R. PERRY et al.) * column 1, lines 11 to 33; column 4, line 50 to column 5, line 9; fig. 1 *</p> <p>--</p> <p><u>DE - A - 2 007 618</u> (BROWN BOVERI & CIE AG) * page 1, line 1 to page 2, line 3; fig. *</p> <p>--</p> <p><u>US - A - 3 388 319</u> (D.A. PAYNTER) * column 1, lines 9 to 57; fig. 1 *</p> <p>----</p>	<p>1-7, 9,10</p> <p>1-7, 9,10</p> <p>1</p> <p>1</p> <p>1</p>	<p>H 01 H 9/56 H 02 P 13/08 G 05 F 1/14</p> <p>TECHNICAL FIELDS SEARCHED (Int. Cl. 3)</p> <p>H 01 H 9/56 H 02 H 7/22 H 02 P 13/08 H 02 P 13/08 H 03 K 17/13 H 03 K 17/16 G 05 F 1/14</p> <p>CATEGORY OF CITED DOCUMENTS</p> <p>X: particularly relevant A: technological background O: non-written disclosure P: intermediate document T: theory or principle underlying the invention E: conflicting application D: document cited in the application L: citation for other reasons</p>
A			
A			
<p>X The present search report has been drawn up for all claims</p>			<p>&: member of the same patent family, corresponding document</p>
Place of search		Date of completion of the search	Examiner
Berlin		07-01-1982	LEMMERICH