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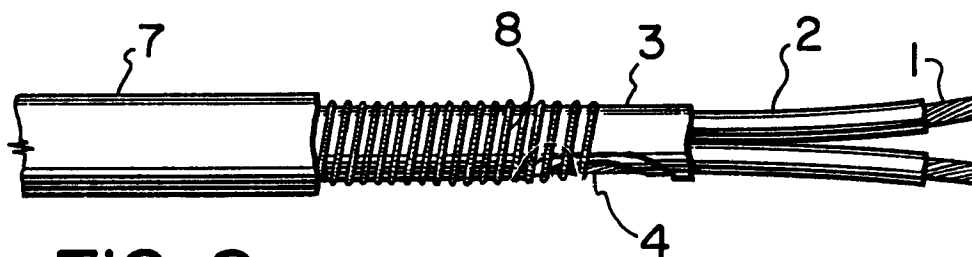
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**(54) Variable power limiting heat tracing cable**

(57) A heating cable includes a pair of elongated electrode wires, each of which is coated with a first layer of insulating material. The first layer of insulating material is at least partially stripped off selected ones of the wires at spaced, alternating locations. A resistive heater wire, together with a yarn of fibrous insulating material, is spirally wound around the electrode wires whereby the heater wire is brought into electrical contact with

selected ones of the electrode wires at the alternating locations, to electrically connect the alternating locations with the resistive heater wire. A second layer of an insulating material is provided over the resistive heater wire and insulating material, forming an outer surface for the cable.



**FIG. 2**

**EP 0 802 701 A3**



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# EUROPEAN SEARCH REPORT

Application Number  
EP 96 30 3335

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)
Y	FR 2 112 901 A (ELPAG AG. CHUR) * page 11, paragraph 1; figure 10 * ---	1-3,7-9	H05B3/56
Y	US 5 245 161 A (OKAMOTO ) * column 5, paragraph 2 - paragraph 5; figure 5 * -----	1-3,7-9	
			TECHNICAL FIELDS SEARCHED (Int.Cl.6)
			H05B
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 23 September 1997	Examiner Herbreteau, D
<p><b>CATEGORY OF CITED DOCUMENTS</b></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  .....  &amp; : member of the same patent family, corresponding document</p>			

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