

12 **EUROPEAN PATENT APPLICATION**

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H 05 B 3/10

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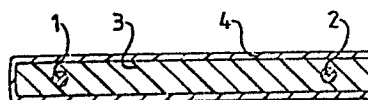
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54 **Conductive polymers and devices containing them.**

57 The properties of conductive polymer compositions, especially PTC compositions, are improved by incorporating therein a thermally conductive filler, preferably a filler of high aspect ratio, eg. crystalline graphite. Self-limiting heaters having greatly increased power can be produced through use of these compositions.

Fig. 2.





European Patent
Office

EUROPEAN SEARCH REPORT

0123540

Application number

EP 84 30 2717

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. 3)
X	DE - A - 3 012 772 (DOW CORNING)		
Y	* Claims 1,2 *	1-7 8,9	H 01 B 1/24 H 05 B 3/10
Y	GB - A - 1 444 722 (HARRIS)		
	* Claim 1; page 2, lines 70-74, 106-108; example II, figure 1 *	8,9	
X	DE - A - 3 135 430 (KUREHA)		
	* Abstract; example 1 *	1-4,7	
X	US - A - 4 145 227 (SEGAL et al.)		
	* Example 20; column 8, lines 6-9 *	1-4,7	TECHNICAL FIELDS SEARCHED (Int. Cl. 3)
XP	EP - A - 0 099 573 (DIAMOND)		H 01 B 1/00 H 05 B 3/00
	* Claims 1,8,11; page 20, table A, sample no. 2Q; page 1, lines 7-11 *	1,3,4,7,8	
The present search report has been drawn up for all claims.			
Place of search Vienna		Date of completion of the search 29-06-1984	Examiner KUTZELNIGG
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	



CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing more than ten claims.

- ☐ All claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for all claims.
- ☐ Only part of the claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid, namely claims:
- ☐ No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.

☒ LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirement of unity of invention and relates to several inventions or groups of inventions, namely:

- 1) Claims 1-9: Concerning a polymer composition
- 2) Claim 10: Concerning a strip heater which comprises a polymeric component, whose composition is not identical with that in 1.

- ☐ All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.
- ☐ Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:
- ☒ None of the further search fees has been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims,

namely claims: 1-9