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Rohm and Haas Company Patent Department
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London WC1A 2TP(GB)(54) **Resistors, methods of forming said resistors, and articles comprising said resistors.**

(57) This invention concerns resistor compositions, methods of forming such resistor compositions, and articles comprising a substrate carrying such resistor compositions.

The resistor compositions of the invention comprise carbon particles embedded in a matrix formed from short chain-length phenolic resin, long chain-length phenolic resin, epoxy and, optionally filler.

The resistor compositions of the invention can be formed by mixing short chain-length phenolic resin, long chain-length phenolic resin, solvent, and, if present, filler with carbon particles to form a solution which is then mixed with the epoxy to form an ink. The ink is applied to a substrate to form a film thereon which is cured to evaporate solvent and to allow polymerization to occur thereby leaving the resistor composition on the substrate.

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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)
X	US-A-3 686 139 (I. LUBIN) * Claims 1,2,4-6; column 3, line 49 - column 4, line 4; column 6, lines 1-10; columns 9-10; example III *	1,3,4, 6,8,9, 12-14, 16	H 01 C 7/00 H 01 C 17/06
A	US-A-2 825 702 (H.I. SILVERSHER) * Claims 1,2,5,6; column 2, line 70 - column 3, line 8; column 3, line 74 - column 4, line 3 *	1,6,8, 9,12, 16	
A	CHEMICAL ABSTRACTS, vol. 83, no. 2, 14th July 1975, abstract no. 20684t, Columbus, Ohio, US; & JP - A - 75 16 095 (TOKYO SHIBAURA ELECTRIC CO., LTD.) 20-02-1975 * Abstract *	1,9	TECHNICAL FIELDS SEARCHED (Int. Cl. 4) H 01 C
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 10-10-1985	Examiner DECANNIERE L. J.
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	

