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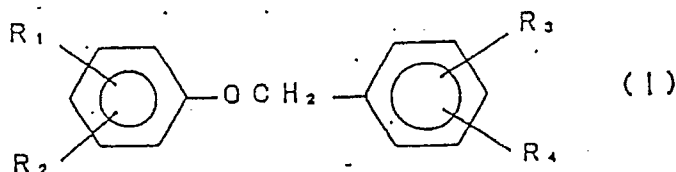
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**31.07.91 Bulletin 91/31**(71) Applicant: **FUJI PHOTO FILM CO., LTD.**  
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**Kanagawa 250-01(JP)**(72) Inventor: **Higashi, Shunsaku, c/o Fuji Photo**  
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**Gee & Co., Chancery House, Chancery Lane**  
**London WC2A 1QU(GB)**(54) **Heat-sensitive recording material.**

(57) A heat-sensitive recording material has on a support e.g. of paper, in order:

(1) a heat-sensitive coloring layer containing, usually in a water-soluble polymer binder, at least an electron-donating colorless dye, an electron-accepting compound, an ether represented by



wherein R<sub>1</sub> to R<sub>4</sub> each represents a hydrogen or halogen (e.g. Cl) atom or an alkyl or alkoxy group, as pigment calcium carbonate having an oil absorption by a specified JIS method of not more than 60 ml/100 g and optionally an aliphatic amide or ureide or an aromatic ester or another aromatic ether, and

(2) a layer of a water-soluble polymer containing at least an inorganic pigment having an oil absorption by the JIS method of at least 50 ml/100 g, a wax (e.g., paraffin wax) and a metal soap (e.g. a stearate).

The coating dispersions may be coated simultaneously or separately. A back-coat layer may be present. The upper layer (2) components may diffuse into layer (1).

The material has good coloring density and running properties under a thermal head e.g., in a facsimile machine.

**EP 0 408 339 A3**



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## EUROPEAN SEARCH REPORT

Application Number

**EP 90 30 7584**

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.5)
Y	PATENT ABSTRACTS OF JAPAN vol. 9, no. 3 (M-349)(1726) 09 January 1985, & JP-A-59 155096 (OUJI SEISHI K.K.) 04 September 1984, * the whole document *	1-7	B 41 M 5/30 B 41 M 5/40
Y	GB-A-2 178 183 (FUJI PHOTO FILM CO LTD) * page 3, lines 14 - 46 ** tables 1,3 ** page 26, lines 8 - 24 *	1-7	
A	GB-A-2 179 167 (FUJI PHOTO FILM CO LTD) * tables 1,2 *	1	
A	GB-A-2 114 767 (RICOH CO LTD) * page 5, lines 21 - 50 *	1	
A	GB-A-2 200 220 (FUJI PHOTO FILM CO LTD) * page 15, line 1 - page 17, line 3 *	1	
A	PATENT ABSTRACTS OF JAPAN vol. 12, no. 289 (M-728)(3136) 08 August 1988, & JP-A-63 64795 (RICOH CO LTD) 23 March 1988, * the whole document *	1	
			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			B 41 M
The present search report has been drawn up for all claims			
Place of search		Date of completion of search	Examiner
The Hague		31 May 91	MARKHAM R.
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