

(19)



Europäisches Patentamt

European Patent Office

Office européen des brevets



(11)

EP 0 730 196 A3

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3:
21.01.1998 Bulletin 1998/04

(51) Int. Cl.⁶: **G03C 1/498**, B41M 5/30

(43) Date of publication A2:
04.09.1996 Bulletin 1996/36

(21) Application number: **96200223.4**

(22) Date of filing: **01.02.1996**

(84) Designated Contracting States:
BE DE FR GB NL

(30) Priority: **02.03.1995 EP 95200506**

(71) Applicant: **AGFA-GEVAERT N.V.**
2640 Mortsel (BE)

(72) Inventors:
• **Leenders, Luc,**
c/o Agfa-Gevaert N.V.
B-2640 Mortsel (BE)
• **Oelbrandt, Leo,**
c/o Agfa-Gevaert N.V.
B-2640 Mortsel (BE)

(54) Heat-sensitive recording material having image-stabilization properties

(57) A heat-sensitive recording material suited for use in direct thermal imaging and having image-stabilization properties which material contains in a binder on a support (i) a substantially light-insensitive organic silver salt capable of thermally activated reduction to silver in thermal working relationship with (ii) at least one reducing agent capable of reducing the substantially light-insensitive organic silver salt when thermally activated, characterized in that the recording material contains in conjunction, preferably in admixture, with the reducing agent(s) at least one colourless photo-oxidizing substance that on exposure to ultraviolet (UV) radiation, such as present in daylight or artificial lighting, yields free radicals capable of inactivating said reducing agent(s) by oxidation, thereby rendering said reducing agent(s) incapable of reducing said organic silver salt to silver.

EP 0 730 196 A3



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 96 20 0223

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)
X	FR 2 168 370 A (MINNESOTA MINING & MFG) 31 August 1973 * example 2 *	1	G03C1/498 B41M5/30
X,D	US 3 094 417 A (W. R. WORKMANN) * column 11, line 73 - column 12, line 17; claim 1 *	1	
A,D	GB 1 271 177 A (E-I. DU PONT DE NEMOURS AND COMPANY) 19 April 1972 * page 1, line 11 - line 21 * * page 9, line 112 - line 121 *	2	
A	PATENT ABSTRACTS OF JAPAN vol. 008, no. 143 (M-306), 4 July 1984 & JP 59 041294 A (FUJI SHASHIN FILM KK), 7 March 1984, * abstract *	1	
A	US 3 526 506 A (WORKMAN WESLEY R) 1 September 1970 * the whole document *	1	TECHNICAL FIELDS SEARCHED (Int.Cl.6)
A	US 3 094 619 A (E.E. GRANT) 18 June 1963 * the whole document *	1	G03C B41N B41M
A	US 3 218 166 A (J.I. REITTER) 16 November 1965 * the whole document *	1	
A	DE 20 10 822 A (NASHUA) 1 October 1970 * page 1 *	1	
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 12 November 1997	Examiner Rasschaert, A
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			

EPO FORM 1503 03/82 (P04C01)