

(19)



Europäisches Patentamt

European Patent Office

Office européen des brevets



(11)

EP 0 733 487 A3

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3:
07.01.1998 Bulletin 1998/02

(51) Int. Cl.⁶: **B41C 1/10, B41M 5/38**

(43) Date of publication A2:
25.09.1996 Bulletin 1996/39

(21) Application number: **95203378.5**

(22) Date of filing: **07.12.1995**

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

(30) Priority: **30.01.1995 EP 95200221**

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

(72) Inventors:
• **Verburgh, Yves,**
c/o Agfa-Gevaert N.V. Die 3800
B-2640 Mortsel (BE)
• **Vermeersch, Joan,**
c/o Agfa-Gevaert N.V. Die 3800
B-2640 Mortsel (BE)

(54) Method for making a lithographic printing plate requiring no wet processing

(57) There is provided a method for obtaining a lithographic printing plate requiring no wet processing comprising the steps of

- image-wise exposing using a laser beam a heat mode recording material comprising on a support a recording composition comprising a hydrophobic polymer and a substance capable of converting the laser beam radiation into heat while said heat mode recording composition is in contact with the acceptor layer of an acceptor element comprising a flexible support, said acceptor layer comprising a hardened non-proteinic hydrophilic polymer obtained by reacting a non-proteinic hydrophilic polymer containing a hydroxyl group or an amino or amido group having a free hydrogen with a hardener capable of reacting with said groups and
- separating said heat mode recording material from said acceptor material,

characterized in that said recording composition comprises a thermal transferable dye which is transferred at the exposed areas from the recording material to the surface of the acceptor element.

EP 0 733 487 A3



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 95 20 3378

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,D	EP 0 001 068 A (FROMSON H A)	1	B41C1/10
X	* page 16, line 1 - line 6 *	2-5	B41M5/38
X	* page 9, line 1 - line 5; example 8 *	4,5	

Y	GB 1 315 288 A (COLUMBIA RIBBON AND CARBON MANUFACTURING CO.,)	1	
	* page 2, line 26 - line 47 *		
X	* example *	6,9,10	

Y	FR 2 258 265 A (SCOTT PAPER CO) 18 August 1975	1	
X	* claims 3,4 *	4,5	

Y	EP 0 514 990 A (AGFA-GEVAERT N.V.)	1	
X	* the whole document *	7,9	

Y	EP 0 620 502 A (AGFA-GEVAERT N.V.)	1	
X	* page 5, line 48 - line 53; claims *	6,8,10	

Y	J. VERMEERSCH: "A LITHOGRAPHIC PRINTING PLATE" RESEARCH DISCLOSURE, no. 33303, 1 January 1992, page 2 XP000281114	1	
	* the whole document *	6	

X	US 5 281 509 A (MURAKATA TETSUNOBU ET AL) 25 January 1994	11,12	
	* column 1, line 67 - column 2, line 14 *		
	* column 3, line 61 - column 4, line 2 *		

A	EP 0 160 395 A (ICI PLC) 6 November 1985	1	
	* the whole document *		

A	EP 0 450 199 A (AGFA GEVAERT NV) 9 October 1991	1-10	
	* the whole document *		

	-/--		
The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	Examiner
THE HAGUE		5 November 1997	Rasschaert, A
CATEGORY OF CITED DOCUMENTS		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	
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			

EPO FORM 1503 03.82 (P04C01)



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 95 20 3378

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)
A	US 4 935 463 A (STOCKEL ELFRIEDE ET AL) 19 June 1990 * the whole document * -----	1	
			TECHNICAL FIELDS SEARCHED (Int.Cl.6)
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 5 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)