



Europäisches Patentamt
European Patent Office
Office européen des brevets



(11) **EP 1 138 518 A3**

(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
09.07.2003 Bulletin 2003/28

(51) Int Cl.7: **B41M 7/00, B41M 5/00**

(43) Date of publication A2:
04.10.2001 Bulletin 2001/40

(21) Application number: **01104145.6**

(22) Date of filing: **21.02.2001**

(84) Designated Contracting States:
**AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU
MC NL PT SE TR**
Designated Extension States:
AL LT LV MK RO SI

(72) Inventors:
• **Zarng-Arh, George Wu**
Reading, Massachusetts 01867 (US)
• **Sondergeld, Manfred Adelhard Josef**
63165 Muehlheim (DE)
• **Smith, James Steven**
Towanda, Pennsylvania 18848 (US)

(30) Priority: **30.03.2000 US 538770**

(71) Applicant: **E.I. DU PONT DE NEMOURS AND
COMPANY**
Wilmington Delaware 19898 (US)

(74) Representative: **Towler, Philip Dean**
Frank B. Dehn & Co.,
European Patent Attorneys,
179 Queen Victoria Street
London EC4V 4EL (GB)

(54) **Ink jet receptor sheets and transfer elements**

(57) A printing system and process are disclosed for producing durable, high quality, typically, right reading ink jet printed images. An ink jet receptor sheet and a transfer element containing a substantially transparent

hydrophobic layer, e.g., mixture of acrylic polymer, poly (n-butyl methacrylate) and 2-ethylhexyl-2-cyano-3,3-diphenyl acrylate; polyurethane elastomer or styrene copolymer is disclosed.

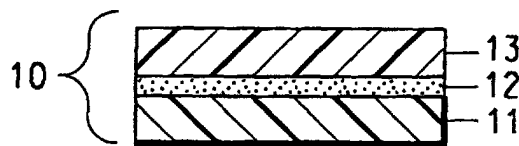


FIG. 1



European Patent Office

EUROPEAN SEARCH REPORT

Application Number
EP 01 10 4145

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.7)
Y	WO 96 08377 A (MINNESOTA MINING & MFG) 21 March 1996 (1996-03-21) * page 5, line 2 - line 21 * * page 11, line 4 - line 11 * * figure 1 * ---	1,2,7,10	B41M7/00 B41M5/00
Y	US 5 962 369 A (OLDFIELD MARY CATHERINE S ET AL) 5 October 1999 (1999-10-05) * column 3, line 1 - line 4 * * column 3, line 48 - line 50 * * column 3, line 62 - line 65 * ---	1,2,7,10	
A	WO 00 01536 A (MINNESOTA MINING & MFG) 13 January 2000 (2000-01-13) * page 4, line 22 - page 5, line 9 * * page 7, line 15 - page 12, line 3 * * page 13, line 16 - line 24 * ---	1-10	
A	US 5 847 738 A (TUNNEY SCOTT E ET AL) 8 December 1998 (1998-12-08) * column 2, line 22 - line 24 * * column 3, line 42 - column 4, line 13 * -----	1-10	
			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			B41M
The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	Examiner
MUNICH		15 May 2003	Patosuo, S
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)

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 01 10 4145

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on the European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

15-05-2003

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 9608377	A	21-03-1996	AU 3215195 A	29-03-1996
			BR 9508911 A	28-10-1997
			CA 2197992 A1	21-03-1996
			CN 1157593 A	20-08-1997
			DE 69509244 D1	27-05-1999
			DE 69509244 T2	09-12-1999
			EP 0781205 A1	02-07-1997
			JP 10505800 T	09-06-1998
			WO 9608377 A1	21-03-1996
			US 5747148 A	05-05-1998

US 5962369	A	05-10-1999	NONE	

WO 0001536	A	13-01-2000	US 6200647 B1	13-03-2001
			AU 748330 B2	30-05-2002
			AU 2869199 A	24-01-2000
			BR 9911741 A	03-04-2001
			CN 1307525 T	08-08-2001
			EP 1094952 A1	02-05-2001
			JP 2002519225 T	02-07-2002
			WO 0001536 A1	13-01-2000

US 5847738	A	08-12-1998	DE 69804058 D1	11-04-2002
			DE 69804058 T2	31-10-2002
			EP 0890449 A1	13-01-1999
			JP 11070647 A	16-03-1999
