

(19)



Europäisches Patentamt
European Patent Office
Office européen des brevets



(11)

EP 0 829 368 A3

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3:
09.06.1999 Bulletin 1999/23

(51) Int Cl. 6: B41J 2/21, D06P 5/00,
B41J 3/54, B41J 19/20

(43) Date of publication A2:
18.03.1998 Bulletin 1998/12

(21) Application number: 97306940.4

(22) Date of filing: 08.09.1997

(84) Designated Contracting States:
AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC
NL PT SE

(30) Priority: 11.09.1996 US 710103

(71) Applicant: Scitex Digital Printing, Inc.
Dayton, Ohio 45420-4099 (US)

(72) Inventor: Rayfield, Wilson P.
Dayton, Ohio 45459 (US)

(74) Representative: Freed, Arthur Woolf et al
Reginald W. Barker & Co.,
Chancery House,
53-64, Chancery Lane
London, WC2A 1QU (GB)

(54) Biased serial ink jet printing system for textiles

(57) A method is provided for using an ink jet printer to print on a textile substrate. One or more printheads are oriented to scan the width of the textile web at a bias angle. A different printhead can be used for each color ink, whereby the ink is projected across an air gap to the

textile web during the scan. Arranging the multiple printheads for parallel scanning allows each printhead to scan a separate swath simultaneously. Additional scan widths can be left between printheads to allow for sufficient ink absorption or drying time prior to applying the next color.

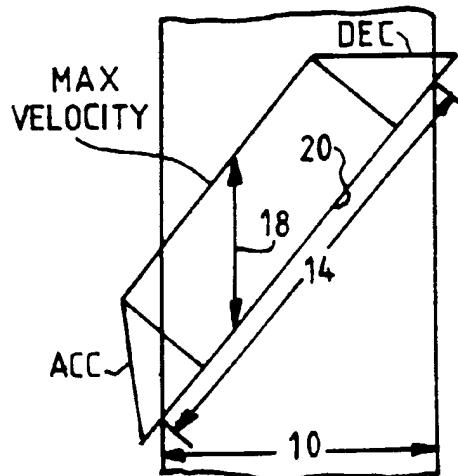


FIG. 3



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 97 30 6940

DOCUMENTS CONSIDERED TO BE RELEVANT		Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
Category	Citation of document with indication, where appropriate, of relevant passages		
Y	PATENT ABSTRACTS OF JAPAN vol. 10, no. 189 (M-494), 3 July 1986 & JP 61 032781 A (NEC CORP), 15 February 1986 * abstract * ----	1-3,8	B41J2/21 D06P5/00 B41J3/54 B41J19/20
Y	EP 0 646 460 A (CANON KABUSHIKI KAISHA) 5 April 1995 * page 13, line 54 - page 14, line 30; figures 5,6 *	1-3,8	
A	PATENT ABSTRACTS OF JAPAN vol. 13, no. 45 (M-792), 2 February 1989 & JP 63 252757 A (CANON INC), 19 October 1988 * abstract * ----	1,8	
A	PATENT ABSTRACTS OF JAPAN vol. 8, no. 10 (P-248), 18 January 1984 & JP 58 171703 A (MITSUBISHI DENKI KK), 8 October 1983 * abstract * -----	1,8	<p>TECHNICAL FIELDS SEARCHED (Int.Cl.6)</p> <p>B41J D06P</p>
The present search report has been drawn up for all claims			
Place of search	Date of completion of the search	Examiner	
BERLIN	15 April 1999	Ducreau, F	
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone	T : theory or principle underlying the invention		
Y : particularly relevant if combined with another document of the same category	E : earlier patent document, but published on, or after the filing date		
A : technological background	D : document cited in the application		
O : non-written disclosure	L : document cited for other reasons		
P : intermediate document	& : member of the same patent family, corresponding document		

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

EP 97 30 6940

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.

15-04-1999

Patent document cited in search report	Publication date		Patent family member(s)	Publication date
EP 646460	A	05-04-1995	JP 7101052 A JP 8039793 A	18-04-1995 13-02-1996