

(11) Publication number: 0 505 154 A3

(12)

EUROPEAN PATENT APPLICATION

(21) Application number: 92302313.9

(22) Date of filing: 18.03.92

(51) Int. Cl.⁵: **B41J 2/07**

(30) Priority: 20.03.91 JP 57457/91 20.03.91 JP 57460/91 02.03.92 JP 44773/92

(43) Date of publication of application : 23.09.92 Bulletin 92/39

84 Designated Contracting States : **DE FR GB IT**

88 Date of deferred publication of search report : 24.03.93 Bulletin 93/12

71) Applicant : CANON KABUSHIKI KAISHA 30-2, 3-chome, Shimomaruko, Ohta-ku Tokyo (JP)

(72) Inventor : Otsuka, Naoji, c/o Canon Kabushiki Kaisha

30-2, 3-chome, Shimomaruko

Ohta-ku, Tokyo (JP)

Inventor : Hirabayashi, Hiromitsu, c/o Canon

Kabushiki Kaisha

30-2, 3-chome, Shimomaruko

Ohta-ku, Tokyo (JP)

Inventor : Yano, Kentaro, c/o Canon Kabushiki

Kaisha

30-2, 3-chome, Shimomaruko

Ohta-ku, Tokyo (JP)

Inventor: Takahashi, Kiichiro, c/o Canon

Kabushiki Kaisha

30-2, 3-chome, Shimomaruko

Ohta-ku, Tokyo (JP)

74 Representative : Beresford, Keith Denis Lewis

et al

BERESFORD & Co. 2-5 Warwick Court High

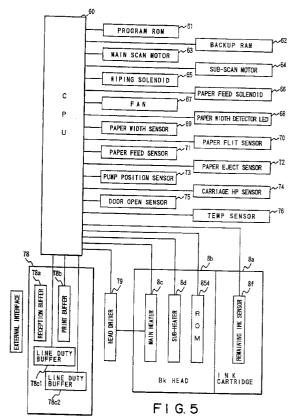
Holborn

London WC1R 5DJ (GB)

(54) Thermal ink jet recording head temperature control.

According to this invention, upon execution of recording by ejecting an ink droplet from a recording head, a surrounding temperature sensor for measuring the surrounding temperature is provided to a main body side, and a change in temperature of the head is presumed from the past to the present time by calculation processing, so that optimal temperature control can be performed without arranging a head temperature sensor having a correlation with the head temperature.

At this time, the ejection quantity can be stabilized by changing the pulse width of a driving signal on the basis of the presumed head temperature, and ejection can be stabilized by performing restoration processing.



EP 0 505 154 A3



EUROPEAN SEARCH REPORT

Application Number

EP 92 30 2313 Page 1

Category	Citation of document with in of relevant pas		Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
Υ,Ρ	EP-A-0 418 818 (CANO		1,3,4, 8-10,15 23,24,2	B41J2/07
	* the whole document & CA-A-2 025 506 19 March 1991	; * 		
Y	PATENT ABSTRACTS OF vol. 15, no. 146 (M- & JP-A-30 24 972 (F February 1991 * abstract *	·1102)12 April 1991	1,3,4, 8-10,15 23,24,2	
A	PATENT ABSTRACTS OF vol. 14, no. 519 (M-& JP-A-22 17 268 (F) 1990 * abstract *		1,3,4, 8-10,15 23,24,2	
A	PATENT ABSTRACTS OF vol. 13, no. 90 (M-8 & JP-A-63 283 965 (November 1988 * abstract *	303)2 March 1989	1,3,4, 8-10,15 23,24,2	
A	PATENT ABSTRACTS OF vol. 10, no. 270 (M-September 1986 & JP-A-61 92 876 (F1986 * abstract *	-517)(2326) 13	1,3,4, 8-10,15 23,24,2	
A	1984	JAPAN 74)(1465) 7 February CANON KK) 1 November	1,2	
	The present search report has be	een drawn up for all claims		
		Date of completion of the search 25 JANUARY 1993		Examiner FERRIGNO A.
X:pai Y:pai	CATEGORY OF CITED DOCUMENT rticularly relevant if taken alone rticularly relevant if combined with and cument of the same category thnological background	NTS T: theory or princi E: earlier patent de after the filing of ther D: document cited L: document cited	ocument, but pu late in the applicati for other reasor	he invention blished on, or on



EUROPEAN SEARCH REPORT

Application Number

EP 92 30 2313 Page 2

			n-1111.	Page 2 ¬	
	····	ERED TO BE RELEVAN	T		
Category	Citation of document with indi of relevant pass:	cation, where appropriate, ages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)	
A	PATENT ABSTRACTS OF vol. 14, no. 414 (M-September 1990		1		
	& JP-A-21 62 054 (S/ 21 June 1990 * abstract *	ANYO ELECTRIC CO LTD)			
A	DE-A-3 935 661 (KABUS * the whole document	SHIKI KAISHA TOSHIBA) *	1		
	•	·			
				TECHNICAL FIELDS SEARCHED (Int. Cl.5)	
	The present search report has been	a drawn un for all claime			
	Place of search	Date of completion of the search			
THE HAGUE		25 JANUARY 1993		FERRIGNO A.	
X : pari Y : pari doci	CATEGORY OF CITED DOCUMENT ticularly relevant if taken alone ticularly relevant if combined with anoth-ument of the same category unployed; all background	E : earlier patent do after the filing d or D : document cited i	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		
A : technological background O : non-written disclosure P : intermediate document		& : member of the sa document	&: member of the same patent family, corresponding document		

EPO FORM 1503 03.82 (P0401)