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(54) **Improved ink jet stimulation monitoring.**

(57) An ink jet printing device has a drop generator for producing continuous streams of ink drops from at least one orifice and further has stimulation control electronics for maintaining desired stimulation conditions in response to a feedback from the drop generator. First and second feedback transducers measure the stimulation amplitude in the drop generator and generate feedback output signals in response to the stimulation. The feedback output signals are approximately equal in magnitude and opposite in sign to each other when the stimulation amplitude in the drop generator is a desired stimulation mode. An amplifier, whose inputs are the feedback output signals, provides an amplifier output signal to the stimulation control electronics which is the difference between the two feedback output signals.

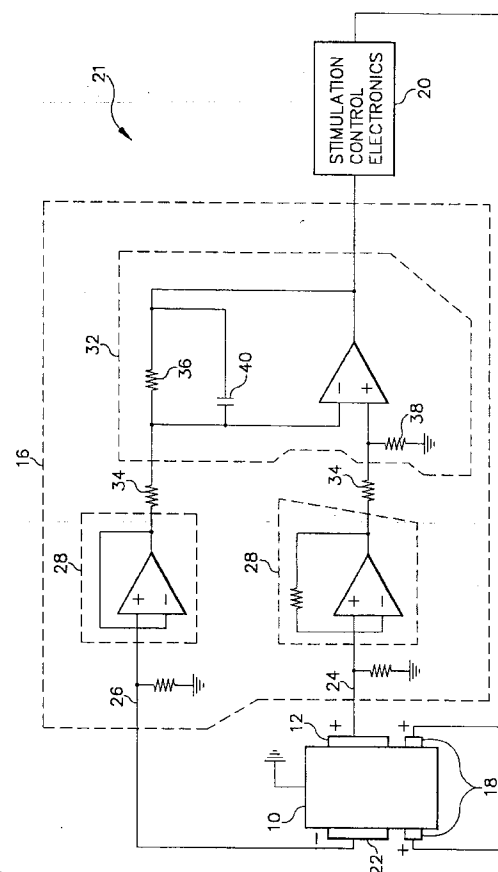


FIG. 2



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 94 30 3090

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.5)
A	EP-A-0 126 536 (EASTMAN KODAK COMPANY) * page 19, line 16 - line 24; figure 5 *	1,6,7,10	B41J2/025 B41J2/115
D,A	US-A-4 473 830 (M.J.PIATT ET AL.) * column 3, line 3 - line 28; figures 1,4 *	1,7	
A	WO-A-91 08900 (EASTMAN KODAK COMPANY) * page 7, line 9 - line 24; figure 3 *	1,7	
A	US-A-4 417 256 (G.L.FILLMORE ET AL.) * column 2, line 26 - line 58; figures 3,4 *	1,2,6,7,10	
A	PATENT ABSTRACTS OF JAPAN vol. 5, no. 65 (M-66) (737) 30 April 1981 & JP-A-56 017 266 (RICOH K.K.) 19 February 1981 * abstract *	1,7	
			TECHNICAL FIELDS SEARCHED (Int. CL.5)
			B41J
The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	Examiner
BERLIN		4 April 1995	Ducureau, F
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			

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