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(54) **Ink jet printer and its printing method.**

(57) Ink is flied under condition that ink flies in mist form according to relation of electric field value between a recording electrode and an opposite electrode and physical property value of the ink. Mist amount of the ink is adjusted thereby a dot is provided with tone without varying the diameter, and high density of the small diameter picture element enables the natural and smooth image formation.

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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.4)
A	EP-A-0 196 820 (TOKYO ELECTRIC CO. LTD) * abstract; figure 1 * ---	1	B 41 J 3/04
A	DE-A-3 019 012 (RICOH CO. LTD.) * pages 9,10; figure 1 * ---	1	
A	GB-A-1 471 780 (XEROX CORPORATION) * page 3; lines 10-16 * ---	1,5,7	
P,A	EP-A-0 208 322 (TOKYO ELECTRIC CO. LTD.) * abstract; figure 2 *; & JP - A - 6213356 (Cat. D,A); & JP - A - 6213357 (Cat. D,A) -----	1,5	
			TECHNICAL FIELDS SEARCHED (Int. Cl.4)
			B 41 J 3/04
The present search report has been drawn up for all claims			
Place of search BERLIN		Date of completion of the search 02-06-1989	Examiner ZOPF K
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			