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## EUROPEAN PATENT APPLICATION

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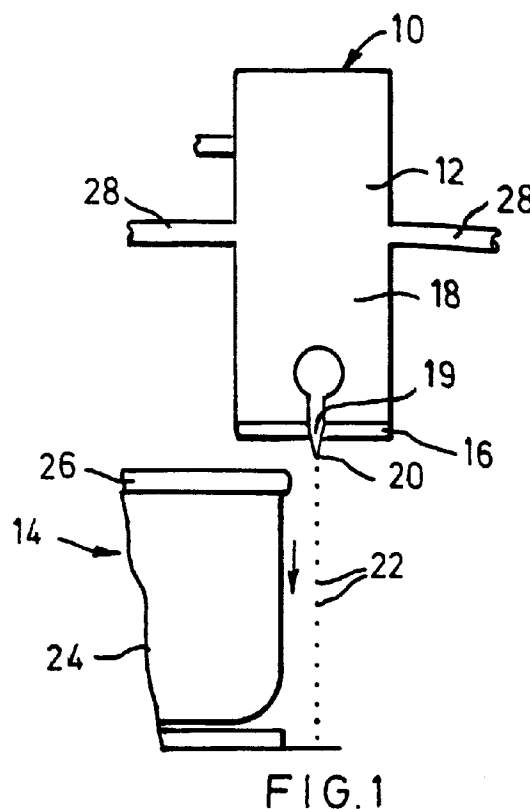
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### (54) Method for manufacturing a fluid cavity in an ink jet print head

(57) A continuous ink jet printing system includes a resonator (12) having an internal fluid cavity. An initial aperture (30) is drilled through the internal fluid cavity. A wire electrical discharge machining process is then applied to the surface of the internal fluid cavity to achieve a desired aperture dimension. The final aperture can be honed to improve surface finish.



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## EUROPEAN SEARCH REPORT

Application Number  
EP 96 30 6775

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.6)
Y	EP 0 299 143 A (RAYCON TEXTRON INC.) * claims *	1-3,5-8	B41J2/16 B41J2/025
Y	--- PATENT ABSTRACTS OF JAPAN vol. 016, no. 135 (M-1230), 6 April 1992 & JP 03 295659 A (SEIKO EPSON CORP), 26 December 1991, * abstract *	1-3,5-8	
X	--- PATENT ABSTRACTS OF JAPAN vol. 009, no. 121 (M-382), 25 May 1985 & JP 60 008077 A (FUJITSU KK), 16 January 1985, * abstract *	4	
Y	---	3	
A	US 4 685 185 A (BOSO ET AL.) * column 7, line 51 - column 8, line 46; figures *	2,6,8	
A	--- US 4 711 981 A (ASO ET AL.) * the whole document *	1,2,5-8	TECHNICAL FIELDS SEARCHED (Int.Cl.6)
A	--- US 5 235 746 A (LEONARD) * the whole document *	1,2,5-8	B41J
A	--- PATENT ABSTRACTS OF JAPAN vol. 012, no. 206 (M-708), 14 June 1988 & JP 63 009551 A (RICOH CO LTD), 16 January 1988, * abstract *	4	
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The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 15 July 1997	Examiner Meulemans, J-P
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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Application Number  
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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.6)
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The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 15 July 1997	Examiner Meulemans, J-P
<p><b>CATEGORY OF CITED DOCUMENTS</b></p> <p>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</p> <p>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 &amp; : member of the same patent family, corresponding document</p>			

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