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(54) Ink jet apparatus.

(57) An ink jet apparatus utilises a bubble trap (20) in the supply line (22) from the reservoir (44) to the inlet (18) to the jet. The bubble trap (20) includes a screen (42) at the bottom of the bubble trap on the inlet side so as to block the flow of ink through the inlet (18) with an air bubble trapped at the

screen (42). A valve (60) in the ink flow line (46) leading to the bubble trap (20) is spaced from a needle (48) which pierces the septum (50) of a cartridge (44). The valve (68) is located downstream from the needle (48) and septum (50).

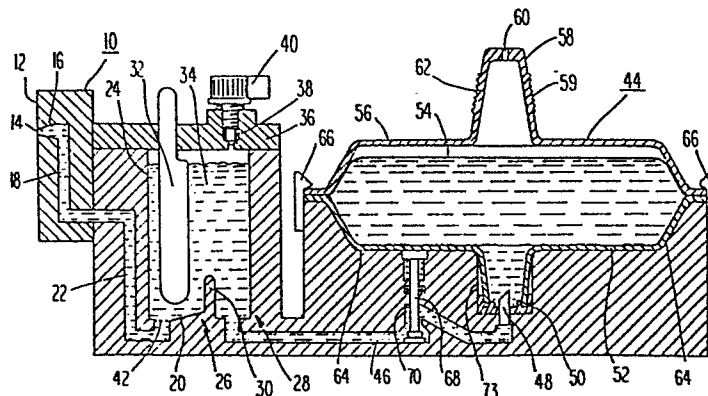


Fig. 1



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EUROPEAN SEARCH REPORT

0116466

Application number

EP 84 30 0822

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. 3)
X	US-A-3 929 071 (CIALONE et al.) * Column 4, line 55 - column 6, line 34; figures 4,6 *	1	B 41 J 3/04
A	---	4-6,8	
A	DE-A-3 043 810 (SIEMENS) * Page 7, lines 1-6; figure 1 *	7	
A	IBM TECHNICAL DISCLOSURE BULLETIN, vol. 24, no. 4, September 1981, pages 1808-1809, Armonk, US; F.Y. BRANDON et al.: "Ink jet nozzle structure" * Lines 8-10; figure *	2	
A	FR-A-2 463 005 (MATSUSHITA)		TECHNICAL FIELDS SEARCHED (Int. Cl. 3)
A	DE-A-2 737 911 (OLYMPIA WERKE)		B 41 J
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 07-08-1985	Examiner LOUVION B.A.G.A.
<p>CATEGORY OF CITED DOCUMENTS</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 & : member of the same patent family, corresponding document</p>			