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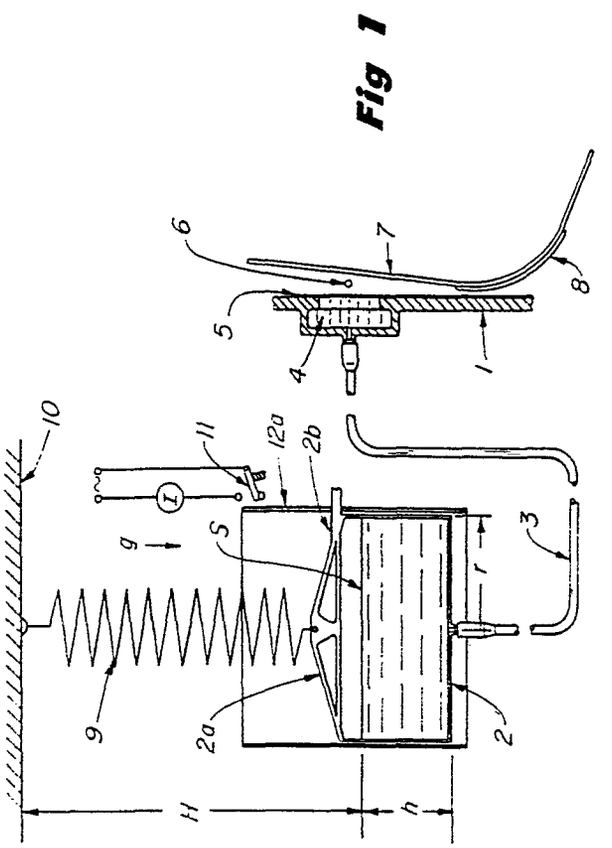
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(54) Method and apparatus for maintaining a substantially constant ink pressure at a remotely fed ink printhead.

(57) Pressure surging and variations in ink supply in a remote source reservoir ink jet printing system are eliminated in a unique method and implementing apparatus employing a simple elastically suspended reservoir. The weight of the reservoir is kept negligibly small in relation to the weight of the ink. The elastic constant is selected so that the reservoir rises as the ink supply diminishes maintaining the surface of the ink at a relatively constant height with respect to the printhead, independantly of the depth of the ink in the reservoir. This maintains the hydrostatic pressure head (slightly negative in this application) relatively constant in relation to the printhead which is supplied by the reservoir. Any elastic system operating in tension, compression, bending, torsion and so on is contemplated.

Fig 1



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EUROPEAN SEARCH REPORT

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EP 87 10 1964

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-0 110 499 (HEWLETT-PACKARD CO.) * abstract; figure 2 *	1	B 41 J 3/04
A	DE-A-3 204 661 (SIEMENS AG) * figures 1-4 *	1	
D,A	US-A-4 462 037 (R.G. BANGS et al.) * figure 2 *	1	
A	DE-B-2 424 831 (OLYMPIA WERKE AG) * figure 1 *	1	

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	Date of completion of the search	Examiner
BERLIN	23-10-1987	ZOPF K

CATEGORY OF CITED DOCUMENTS

X : particularly relevant if taken alone
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