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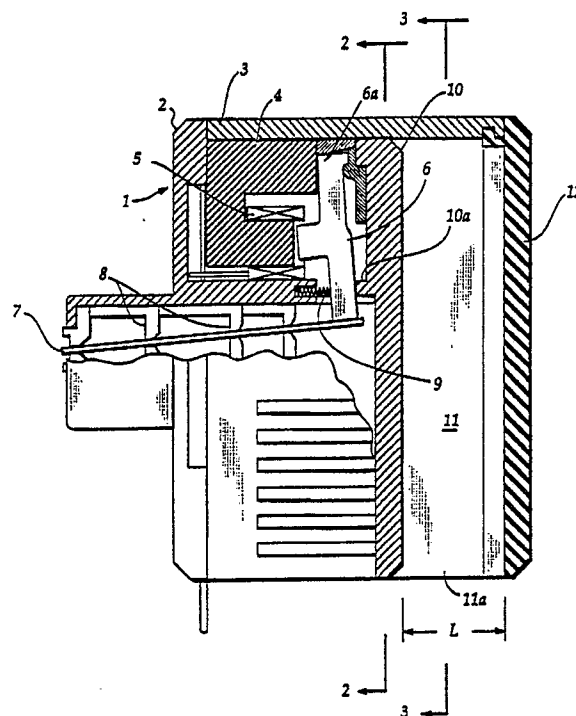
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54 **Low-noise printer head assembly.**

57 A printer head assembly comprises a plurality of print heads radially mounted within a heat sink (3) in thermal contact relation. Each print heads includes a print wire (7), an armature (6) connected to the print wire, a stopper plate (10), a return spring (9) for biasing the armature into contact with the stopper plate (10), and an electromagnetic (4,5) which drives the armature (6) against the spring (9) in response to energization of the magnet so that the print wire (7) is moved from a non-print position to a print position and causes the spring (9) to restore the armature (6) to the non-print position in response to deenergization of the magnet. The heat (3) sink has a rear part extending beyond the stopper plate (10) to an elastic rear panel (12) to form a sound absorption air chamber (11) therebetween.

Fig. 1



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EUROPEAN SEARCH REPORT

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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)
Y	PATENT ABSTRACTS OF JAPAN vol. 11, no. 183 (M-598)(2630) 12 June 1987, & JP-A-62 11654 (Y.ARA) 20 January 1987, * the whole document *	1, 2	B41J29/10
A	---	3-6	
Y	US-A-3918567 (KITREDGE) * column 3, line 64 - column 6, line 9 * * figures 1, 8 *	1, 2	
A	---	3-6	
A	IBM TECHNICAL DISCLOSURE BULLETIN. vol. 24, no. 12, May 1982, NEW YORK US pages 6323 - 6324; R.V.FIRTH: "COOLING A THERMAL PRINT HEAD"	1, 2, 4, 5	
A	US-A-4529326 (MATTSSON) * column 1, line 55 - column 2, line 66 * * figures 1-3 *	1-6	
A	PATENT ABSTRACTS OF JAPAN vol. 7, no. 246 (M-253)(1391) 01 November 1983, & JP-A-58 132567 (Y.HONMA) 06 August 1983, * the whole document *	1, 4	TECHNICAL FIELDS SEARCHED (Int. Cl.4)
A	PATENT ABSTRACTS OF JAPAN vol. 12, no. 134 (M-689)(2981) 23 April 1988, & JP-A-62 256661 (M.TANAKA) 09 November 1987, * the whole document *	4	B41J
A	US-A-4401026 (BROWN)		
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 07 JUNE 1990	Examiner ADAM E.M.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			