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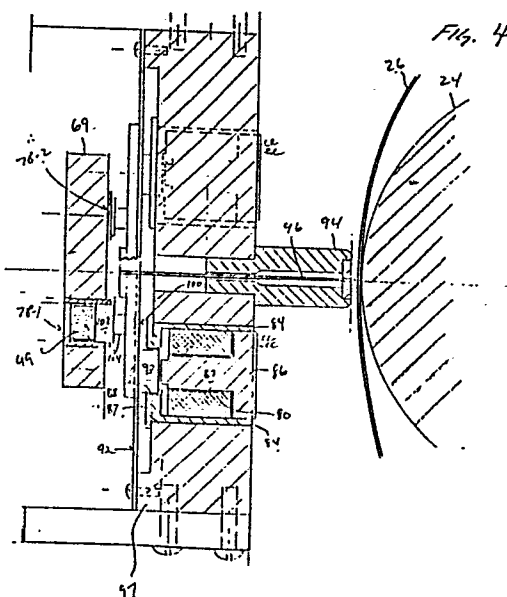
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 **Dot matrix printers and print head therefor.**

 Several new print heads are disclosed for use in serial and line printers. The print head is of the solenoid operated type without stored energy magnets and has a very low mass armature beam which the solenoid specifications are matched for performance at less than 300 microseconds. Damper mechanisms are provided for absorbing recoil sufficiently that refire rates of 350 microseconds or less are achieved. A new lightweight line printer is based on the low and the overall mass of the disclosed print head. Serial printers are also disclosed.





DOCUMENTS CONSIDERED TO BE RELEVANT			EP 83306462.9
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. 3)
D,A	US - A - 3 828 908 (SCHNEIDER) * Totality * --	1,2,7, 12,16- 22	B 41 J 3/12
P,A	US - A - 4 375 338 (MITSUISHI) * Totality * --	1,2,7, 12,16, 19,23, 24,26	
D,A	US - A - 4 279 518 (BLOMQUIST) * Totality * --	1,2,7, 12,16, 18,19, 21,22	
A	US - A - 4 351 235 (BRINGHURST) * Fig. 1-7 * ----	10,11	
			TECHNICAL FIELDS SEARCHED (Int. Cl. 3)
			B 41 J G 06 K
The present search report has been drawn up for all claims			
Place of search VIENNA		Date of completion of the search 02-07-1985	Examiner WITTMANN
CATEGORY OF CITED DOCUMENTS		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	
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			