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⑫ Applicant: **CANON KABUSHIKI KAISHA**
30-2, 3-chome, Shimomaruko
Ohta-ku Tokyo (JP)

⑫ Inventor: **Terasawa, Koji**
9-5-103, Simorenjaku 9-Chome
Mitaka-shi Tokyo (JP)

Yamaguchi, Hideki
34-9-102, Higashi Terao 6-Chome Tsurumi-ku
Yokohama-shi Kanagawa-ken (JP)

⑫ Representative: **Beresford, Keith Denis Lewis et al**
BERESFORD & Co. 2-5 Warwick Court High Holborn
London WC1R 5DJ (GB)

⑫ **Discharge recovery method for an ink jet recording head, recording head adopting the same method and ink jet recording apparatus adopting the same method.**

⑫ In a discharge recovery method for an ink jet recording head (1), a recording head having discharge openings for discharging ink therethrough, liquid paths (2) in which recording energy generating members (3) generating energy for discharging the ink through the discharge openings are provided and which communicate with the discharge openings, and a liquid chamber (4) communicating with the liquid paths (2) for supplying the ink to the liquid paths is used to drive heat energy generating (5) means provided in the liquid chamber for generating heat energy for causing a change in the state of the ink in the liquid chamber (4) and creating a bubble, during non-recording, thereby causing the ink to be discharge through the discharge openings.

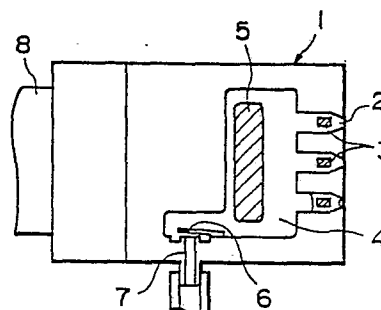


FIG. 1



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	PATENT ABSTRACTS OF JAPAN, vol. 12, no. 113 (M-683)[2960], 9th April 1988; & JP-A-62 240 558 (SHINICHI HIRASAWA) 21-10-1987 * Abstract *	1,4,5, 10,16, 19,21, 28	B 41 J 3/04
A	US-A-4 719 472 (JUNICHI ARAKAWA) * Whole document *	1,4,5, 10-12, 16-19, 21-28	
A	US-A-4 514 742 (SUGA et al.) * Abstract; figures 3a,3b *	13,16, 17	
D,A	US-A-4 176 363 (TADASHI KASAHARA)		
			TECHNICAL FIELDS SEARCHED (Int. Cl.4)
			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 21-12-1989	Examiner ROBERTS N.
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			