

Title (en)

Ink-jet head and methods of manufacturing and driving the same

Title (de)

Tintenstrahlkopf und Verfahren zu seiner Herstellung und zu seiner Steuerung

Title (fr)

Tête à jet d'encre et procédés pour sa fabrication et son actionnement

Publication

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Application

EP 98120935 A 19941014

Priority

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- JP 11131294 A 19940525

Abstract (en)

An ink-jet head is provided, comprising a base plate (11), a plurality of partitions (10) formed by laminating a plurality of plate-shaped piezoelectric material layers (1a - 1c) polarized in a direction of thickness with conductive material layers (2a - 2d) interposed among them, a cover (14), and a sealing member (22), wherein said plural partitions (10) are arranged with given gaps (20, 21, 29) interposed between them on said base plate (11) said gaps (20, 21, 29) being closed by said cover (14) at upper portions thereof and by said sealing member (22) at side portions thereof to form pressurizing chambers (15), and a nozzle hole (23) is formed at a portion of each of said pressurizing chambers (15), and said partitions (10) are laminated piezoelectric actuators each of which has a piezoelectric strain coefficient d_{33} and is deformed in the direction of thickness when voltage is applied thereto.

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Citation (applicant)

- JP S5312138 A 19780203 - OBAYASHI GUMI KK
- JP S6159914 A 19860327 - FUJITSU LTD
- JP H0452213 A 19920220 - DAIDO STEEL CO LTD
- JP H0448622 A 19920218 - SANYO ELECTRIC CO

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