

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

**EP 0897802 A2 19990224 (EN)**

Application

**EP 98120934 A 19941014**

Priority

- EP 94929664 A 19941014
- JP 28037193 A 19931014
- JP 11131294 A 19940525

Abstract (en)

An ink-jet head is provided, comprising a base plate (110), a laminated piezoelectric actuator unit (112) composed of pairs of laminated piezoelectric actuators (111, 111) each having a piezoelectric strain coefficient d33, said laminated piezoelectric actuators (111, 111) having collective electrodes formed on both end surfaces thereof and being arranged in plural rows confronting each other on said base plate (110), a common electrode (113b) being formed by electrically connecting together the collective electrodes formed on confronting end surfaces, which are formed at a central portion of said base plate (110), of said laminated piezoelectric actuators (111, 111), and driving electrodes (113a) being composed of the collective electrodes formed on other end surfaces of said laminated piezoelectric actuators (111, 111), wherein said laminated piezoelectric actuator unit (112) comprises a laminated piezoelectric element block provided on an upper surface of said base plate (110), a first slit formed at a central portion of said laminated piezoelectric element block so as to divide it, and a plurality of second slits shallower than said first slit formed in said laminated piezoelectric element block in a direction substantially perpendicular to said first slit. <IMAGE>

IPC 1-7

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IPC 8 full level

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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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