

Title (en)

INK JET HEAD, METHOD FOR PRODUCING THE SAME AND METHOD FOR DRIVING THE SAME

Title (de)

TINTENSTRAHLDRUCKKOPF, VERFAHREN ZUR HERSTELLUNG UND VERFAHREN ZUM STEUERN DESSELBEN

Title (fr)

TETE A JET D'ENCRE, SON PROCEDE DE PRODUCTION ET PROCEDE DE COMMANDE ASSOCIE

Publication

EP 0723866 A1 19960731 (EN)

Application

EP 94929664 A 19941014

Priority

- JP 9401730 W 19941014
- JP 28037193 A 19931014
- JP 11131294 A 19940525

Abstract (en)

A plurality of layers of a pair of laminated piezoelectric actuators (111) are laid on a substrate (110) so as to form a laminated piezoelectric unit. A diaphragm (115) is bonded to the upper end surface of the laminated piezoelectric actuator unit, and a flow path plate (118) is bonded to the upper surface of the diaphragm (115). Here, a plurality of pressurizing chambers (116) and ink flow paths (117) are formed in the flow path plate (118), and the pressurizing chambers (116) are disposed such that they confront the laminated piezoelectric actuators (111), respectively. Furthermore, a nozzle plate (120) having a nozzle hole (119) is bonded to the upper surface of the flow path plate (118), and ink inside the pressurizing chambers (116) is ejected via the nozzle hole (119) in a direction perpendicular to the base plate (110) by deforming the laminated piezoelectric actuators (111) widthwise by applying voltage. <IMAGE>

IPC 1-7

B41J 2/045

IPC 8 full level

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Cited by

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