

ABSTRACT

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An ink-jet recording head, in which at least two piezoelectric substrates (1, 20, 30) are opposite each other in polarization direction, grooves (3, 21; 4, 31) are formed across the interface of the two substrates at a predetermined pitch so as to form cavities, at one end of which are opened to the atmosphere and have orifices (50, 51) adapted for squirting ink drops. Those cavities have electrodes (17, 18, 24, 34) formed on their inner surfaces. When a voltage of one polarity is applied to the electrode for the cavity from which ink drops should be generated whereas a voltage of the other polarity is applied to the electrodes for the two adjacent cavities, the diaphragms separating the three cavities will deform in a shear mode towards the cavity from which ink drops should be generated. As a result, the capacity of the cavity from which ink drops should be generated decreases to have the ink in said cavity squirted outward from the orifice (50, 51).

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This Sheet Has Been Replaced

