

Title (en)

Ink-jet print head, driving method thereof and ink-jet printer using the same

Title (de)

Tintenstrahldruckkopf, Antriebsverfahren dafür und Tintenstrahldrucker mit einem solchen

Title (fr)

Tête d'impression à jet d'encre, procédé de commande et imprimante à jet d'encre utilisant une telle tête

Publication

EP 0947327 A2 19991006 (EN)

Application

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Priority

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Abstract (en)

In an ink-jet print head, a plurality of sets of pressure chambers (6a, b, c) and supply paths (7a, b, c) are provided to be connected to one another in series between a nozzle (5) and an ink pool (8). Piezoelectric transducers (1a, b, c) are arranged to be opposite to the respective pressure chambers. A driving circuit therefor sequentially applies voltage waveforms to the piezoelectric transducers starting from a piezoelectric transducer provided in the first pressure chamber connected to the ink pool to piezoelectric transducers of the nozzle-side adjacent pressure chambers. At this moment, the piezoelectric transducers provided in the nozzle-side pressure chambers are applied with voltage waveforms delayed in phase by 1/2 of natural periods of pressure waves in the pressure chambers. <IMAGE>

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