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(54) **Ink-jet print head, driving method thereof and ink-jet printer using the same**

(57) 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.

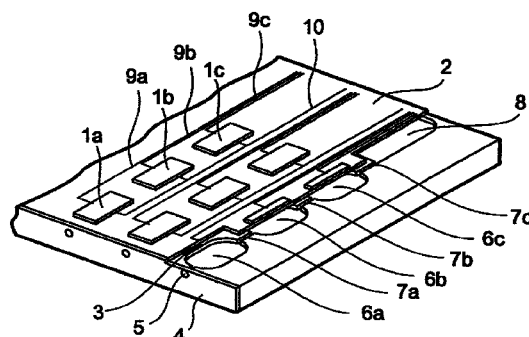


FIG.1

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EUROPEAN SEARCH REPORT

Application Number
EP 99 10 6686

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			B41J
The present search report has been drawn up for all claims			
Place of search MUNICH		Date of completion of the search 23 January 2001	Examiner Axters, M
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

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**ANNEX TO THE EUROPEAN SEARCH REPORT
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