

Title (en)

INKJET HEAD DRIVING METHOD, INKJET HEAD DRIVING DEVICE, AND INKJET PRINTING DEVICE

Title (de)

TINTENSTRAHLKOPF-ANSTEUERUNGSVERFAHREN, TINTENSTRAHLKOPF-ANSTEUERUNGSVORRICHTUNG UND TINTENSTRAHLDRUCKVORRICHTUNG

Title (fr)

PROCÉDÉ D'ATTAQUE DE TÊTE À JET D'ENCRE, DISPOSITIF D'ATTAQUE DE TÊTE À JET D'ENCRE ET DISPOSITIF D'IMPRESSION À JET D'ENCRE

Publication

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Application

EP 13843417 A 20131001

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Abstract (en)

[origin: EP2905138A1] The purpose of the present invention is to provide an inkjet head driving method, an inkjet head driving device, and an inkjet printing device, which, without making any changes to head structure, can simultaneously reduce drive load and the crosstalk generated between multiple rows of pressure chambers that communicate through a common ink chamber. In an inkjet head comprising two or more rows of pressure chambers for generating the pressure to discharge the ink therein from the nozzles by means of pressure-supplying means that are operated by the application of drive signals and in which the pressure chambers of each row of pressure chambers communicate with each other through a common ink chamber: the rows of pressure chambers are divided into N (N being an integer 2 or greater) drive groups; and between different drive groups, a phase difference of $nAL+t$ (n is an integer 1 or greater, AL is $\frac{1}{2}$ of the acoustic resonance period of the pressure wave in the pressure chambers, and t is the pressure wave transmission time determined from [inter-nozzle distance between drive groups]/[velocity at which sound is conducted through the ink]) is provided for the drive signals that are applied to the pressure-supplying means of the pressure chambers.

IPC 8 full level

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Citation (search report)

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