Title (en)

INKJET PRINTING APPARATUS, INKJET HEAD DRIVING METHOD, AND DRIVING WAVEFORM-DESIGNING METHOD

Title (de)

TINTENSTRAHLDRUCKER, ANSTEUERUNGSVERFAHREN FÜR TINTENSTRAHLKOPF UND VERFAHREN ZUM ENTWURF EINER ANSTEUERUNGSWELLENFORM

Title (fr)

APPAREIL D'IMPRESSION À JET D'ENCRE, PROCÉDÉ DE COMMANDE DE TÊTE D'IMPRESSION À JET D'ENCRE, ET PROCÉDÉ DE CONCEPTION DE FORME D'ONDE D'ENTRAÎNEMENT

Publication

EP 3388240 B1 20220330 (EN)

Application

EP 16872919 A 20161202

Priority

- JP 2015239785 A 20151208
- JP 2016085926 W 20161202

Abstract (en)

[origin: EP3388240A1] The present invention addresses the problem of making it possible to drive a head in a multi-drop mode using a driving waveform that is highly robust with respect to AL value and form high quality images. Said problem is solved by: the driving waveform having multiple driving pulses for varying the volume of the pressure chamber multiple times; the driving pulse for discharging the first droplet varying the volume of the pressure chamber and inducing two or more overlapping pressure waves inside the pressure chamber, and there being a phase shift of -0.6 AL to 0.6 AL between the pressure wave oscillation induced in the pressure chamber when the first droplet is discharged and the pressure wave oscillation induced in the pressure chamber by the action prior thereto; and the driving pulse for discharging the subsequent second droplet varying the volume of the pressure chamber and inducing two or more overlapping pressure waves in the pressure chamber, and there being, between the pressure wave oscillation induced in the pressure chamber when the second droplet is discharged and a composite oscillation of the pressure wave oscillation induced in the pressure chamber by the action prior thereto and the reverberation pressure wave oscillation remaining in the pressure chamber as a result of discharging the first droplet, a phase shift in the direction opposite to the phase shift when the first droplet is discharged.

IPC 8 full level

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CPC (source: EP)

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Cited by

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DOCDB simple family (application)

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