

Title (en)

Method of driving an ink jet printer head and driving circuit.

Title (de)

Methode zum Antreiben eines Tintenstrahldruckkopfes und Ansteuerschaltung.

Title (fr)

Méthode d'entraînement pour tête d'impression à jet d'encre et circuit de commande.

Publication

EP 0531173 A1 19930310 (EN)

Application

EP 92308088 A 19920907

Priority

JP 22613091 A 19910905

Abstract (en)

A method of driving an ink jet printer head is provided in which reverse flow of an ink is prevented so as not to introduce air into an ink chamber (4). Further, production of ink satellites are prevented. A braking voltage is instantaneously applied to a piezoelectric element (3) after a voltage to the piezoelectric element (3) has reached a peak level so that inertia of both the piezoelectric element (3) and the ink contained in the ink chamber (4) is canceled. As a result, the flow of ink in the nozzle (5) and ink ejection from the outlet of the nozzle (5) are abruptly stopped to thus prevent the generation of ink satellite. In order that the deformation of the piezoelectric element (3) may not be quickly restored, the voltage applied to the piezoelectric element (3) is gradually returned to a non-driving voltage level, whereby air is prevented from being introduced into the ink chamber (4). <IMAGE>

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IPC 8 full level

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Citation (search report)

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