

Title (en)

Ink flow control system and method for an ink jet printer.

Title (de)

Steuersystem für den Tintenfluss und sein Anwendungsverfahren bei einem Tintenstrahldrucker.

Title (fr)

Système et méthode de commande d'écoulement de l'encre pour une imprimante à jet d'encre.

Publication

EP 0354706 A2 19900214 (EN)

Application

EP 89307791 A 19890801

Priority

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Abstract (en)

A piezoelectric pump 22 or equivalent transducer is mounted on or within an ink jet printhead and is used to modulate the frequency or amplitude, or both, of oscillations of a liquid meniscus at a liquid ejection orifice 17 of a nozzle plate 16. The liquid meniscus at the orifice 17 has a natural resonant frequency and amplitude with respect to its equilibrium position 19, and the above modulation is performed in a controlled timed relation with respect to the phase of the natural oscillations of the meniscus at the liquid ejection orifice 17.

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CPC (source: EP)

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Cited by

EP0738602A3; EP1302319A3; EP0678391A1; EP1510342A1; US6149259A; EP1172212A3; EP0621135A1; US5587727A; EP0805027A3; US5828391A; EP0510934A3; US5280310A; US5481281A; US7364277B2; US6761433B2; US7270403B2; WO2005102707A1; US6217159B1; US6382754B1

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