

Title (en)  
INK FLOW CONTROL SYSTEM AND METHOD FOR AN INK JET PRINTER

Publication  
**EP 0354706 A3 19900801 (EN)**

Application  
**EP 89307791 A 19890801**

Priority  
US 23064488 A 19880810

Abstract (en)  
[origin: EP0354706A2] 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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**B41J 2/045**; **B41J 2/175**

IPC 8 full level  
**B41J 2/05** (2006.01); **B41J 2/02** (2006.01); **B41J 2/055** (2006.01); **B41J 2/14** (2006.01)

CPC (source: EP)  
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Citation (search report)  
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• [X] US 4580149 A 19860401 - DOMOTO GERALD A [US], et al  
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