

Title (en)

Liquid jet printhead for ink jet printers.

Title (de)

Flüssigkeitsstrahlaufzeichnungskopf für Tintendruckeinrichtungen.

Title (fr)

Tête d'imprimante à jets de liquide pour imprimante à jets d'encre.

Publication

EP 0436047 A1 19910710 (DE)

Application

EP 90100037 A 19900102

Priority

EP 90100037 A 19900102

Abstract (en)

To increase the degree of efficiency and the working speed of liquid jet printing devices, it is proposed to arrange in each ink duct (12) at least one automatically acting mechanical valve (13,130,14,140) which prevents expansion of the vapour bubble (11) towards the reservoir (16). In this case, the valves are arranged in the form of closure bodies such that they only allow a flow of liquid towards the jet. The actuation of the valves (13,130,14,140), i.e. the movement of the closure bodies, is brought about by the onset of the flow operation and thus requires no external influence.
<IMAGE>

Abstract (de)

Zur Steigerung des Wirkungsgrades und der Arbeitsgeschwindigkeit von Flüssigkeitsstrahlaufzeichnungsvorrichtungen wird vorgeschlagen, in jeden Tintenkanal (12) mindestens ein selbsttätig wirkendes mechanisches Ventil (13,130,14,140) anzuordnen, das die Expansion der Dampfblase (11) zum Reservoir (16) hin verhindert. Dabei sind die Ventile in Form von Verschlusskörpern so angeordnet, daß sie nur eine Flüssigkeitsströmung zur Düse hin ermöglichen. Die Betätigung der Ventile (13,130,14,140), d.h. die Bewegung der Verschlusskörper, wird durch den einsetzenden Strömungsvorgang bewirkt, bedarf also keiner Einwirkung von außen.

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Citation (search report)

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