

Title (en)

A flexible interconnect circuit for an ink jet print cartridge having a plurality of orifices.

Title (de)

Ein flexibler Zwischenschaltkreis für eine Tintenstrahldruckkartusche, welcher mehrere Öffnungen aufweist.

Title (fr)

Un circuit intermédiaire flexible pour une cartouche d'impression à jet d'encre ayant orifices plusieurs.

Publication

**EP 0644051 A1 19950322 (EN)**

Application

**EP 94306092 A 19940818**

Priority

US 12345193 A 19930916

Abstract (en)

An ink jet printhead cartridge (10) comprising an enclosed cartridge body (12) for storing a liquid ink supply, a thin film resistor structure (24) having a plurality of resistive heater elements thereon in contact with the fluid ink supply, and a flexible interconnect circuit (58) having orifices (154, 156) formed therein attached to the resistor structure by means of a layer of conductive adhesive. The layer of conductive adhesive (72) is made of a polymeric compound having dispersed particulates of a conductive material therein to form an electrical connection between the flexible interconnect and the resistor structure when the flexible interconnect is brought into contact with the resistor structure. The conductive adhesive is cured under controlled temperature and pressure to form a permanent conductive bond between the resistor structure and the flexible interconnect circuit. The orifices are formed in the flexible interconnect circuit by laser milling the flexible interconnect material to conically shaped orifices in the flexible interconnect circuit aligned with the resistive heater elements, thereby eliminating a separate orifice plate. <IMAGE>

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CPC (source: EP)

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Citation (search report)

- [YP] EP 0564072 A2 19931006 - HEWLETT PACKARD CO [US]
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- [A] EP 0442706 A2 19910821 - CANON KK [JP]
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