

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

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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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Citation (search report)

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