

Title (en)
MONOLITHIC INK JET ORIFICE PLATE/RESISTOR COMBINATION

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EP 0110534 A3 19850109 (EN)

Application
EP 83306269 A 19831014

Priority
US 44397282 A 19821123

Abstract (en)
[origin: EP0110534A2] A monolithic orifice plate/resistor combination (11) is provided for which the active elements can be easily aligned using standard mask aligning equipment. First an orifice plate (27) is formed, typically a flat sheet with orifices (23, 25) therein. A passivating layer (29) is then grown on the sheet, and the resistors (13, 15) and conductors (17, 19, 21) to supply them are deposited onto the passivation layer using standard deposition techniques. A spacer (31) is then attached to the passivation layer to define capillary channels for ink flow and to provide increased hydraulic impedance between resistors, thus, completing the structure for the monolithic orifice plate/resistor combination. A completed print head is then made by attaching a sheet of material to the spacer to supply a back to the device and to form the closure for the capillary channels defined by the spacers.

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CPC (source: EP)
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Citation (search report)
• GB 2088286 A 19820609 - CANON KK
• US 4336548 A 19820622 - MATSUMOTO SHIGEYUKI

Cited by
US7121646B2; EP0471157A1; EP1407884A1; CN102173205A; EP2030791A1; US7938511B2; US7073891B2; WO2005065331A3

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