

Title (en)
Thermoelectric ink jet printhead

Title (de)
Elektrothermischer Tintendruckkopf

Title (fr)
Tête d'impression à jet d'encre électrothermique

Publication
EP 0568163 B1 19960731 (DE)

Application
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Abstract (en)
[origin: EP0568163A2] The invention relates to a thermoelectric ink jet print head in a layered construction, in which the dispersion direction of the thermoelectrically produced steam bubble is counter to the ink ejection direction. To improve the degree of efficiency and to reduce the mutual influencing of adjacent ink ducts, it is proposed to provide the side of the chip (11) facing the ink supply container (12) with a terminating plate (1). The terminating plate (1) has apertures (2), whose cross-sectional areas are varied depending on the design, at the intersections of the ink ducts (16) with the supply ducts (15). In a first design, glass or ceramic material bonded electrochemically onto the chip is provided for the terminating plate (1). In a second design, the terminating plate (1) consists of a plastic film which is laminated onto the chip (11) or is adhesive on both sides. In a third design, the terminating plate (1) consists of a metal foil which is bonded electrochemically onto the chip (11). <IMAGE>

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