

Title (en)

Thermal drop-on-demand ink jet printer print head.

Title (de)

Auf Abruf arbeitender thermischer Farbstrahldruckkopf.

Title (fr)

Tête d'impression pour imprimante à jet d'encre à la demande thermique.

Publication

EP 0314388 A2 19890503 (EN)

Application

EP 88309853 A 19881020

Priority

US 11427287 A 19871027

Abstract (en)

The invention relates to a thermal drop-on-demand ink jet printer print head comprising a thermally conductive substrate member (10), a plurality of spaced apart heating elements (12) on a surface of the substrate member, a first electrical connection member (15) on the surface of the substrate member and in contact with all of the heating elements, a plurality of second electrical connection members (16) on the surface of the substrate member, each of the second electrical connection members being in electrical contact with a respective one of the heating elements, and a heat shield for preventing the flow of heat between adjacent heating elements. According to the invention, the print head is characterised in that the heat shield comprises a plurality of heat conducting elements on the surface of the substrate member and extending into the spaces between adjacent heating elements, each of the heat conducting elements being integrally connected to one of the electrical connection members whereby the heat conducting elements conduct heat away from the spaces between the heating elements.

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