

Title (en)

Fluid print head nozzle plate and method of its manufacture.

Title (de)

Düsenplatte für Fluidstrahl-Druckkopf und Verfahren zu deren Herstellung.

Title (fr)

Plaque à buses pour une tête d'impression à jet fluide et son procédé de fabrication.

Publication

EP 0641657 A1 19950308 (DE)

Application

EP 94111846 A 19940729

Priority

DE 4329728 A 19930903

Abstract (en)

The nozzle plate (12) contains nozzles (13), fluid chambers (16) and connecting channels (22) between the fluid chambers (16) and the supply container for the fluid. All the functional areas are produced integrally as microstructure bodies by moulding one or more microstructured mould inserts. The distance which can be implemented between the nozzles (13) is small in order to allow an increased printing density. The nozzle plate (12) is provided for fluid jet print heads (one or more colours). <IMAGE>

Abstract (de)

Die Düsenplatte (12) enthält Düsen (13), Fluidkammern (16) und Verbindungskanäle (22) zwischen Fluidkammern (16) und Vorratsbehälter für das Fluid. Alle Funktionsbereiche werden einstückig als Mikrostrukturkörper durch Abformen eines oder mehrerer mikrostrukturierter Formeinsätze hergestellt. Der realisierbare Abstand der Düsen (13) voneinander ist klein, um eine erhöhte Druckdichte zu ermöglichen. Die Düsenplatte (12) ist für Fluidstrahl-Druckköpfe (einfarbig oder mehrfarbig) vorgesehen. <IMAGE>

IPC 1-7

B41J 2/16

IPC 8 full level

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CPC (source: EP KR US)

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