

Title (en)  
Composite nozzle plate

Title (de)  
Düsenplatte in Verbundstoff

Title (fr)  
Plaque à buses en matière composite

Publication  
**EP 0743184 A2 19961120 (EN)**

Application  
**EP 96303396 A 19960514**

Priority  
US 44392395 A 19950518

Abstract (en)  
A method of fabricating a long array high density nozzle plate for an ink jet printhead provides mechanical and thermal stability. A polymer is retained against a single metal laminate, or can be constrained between metal laminates, to provide the mechanical and thermal stability. Apertures are chemically etched in the one or more metal laminates. Subsequently, an axial aperture is laser ablated through a portion of the polymer layer which corresponds to the aperture through the laminates. <IMAGE>

IPC 1-7  
**B41J 2/16**

IPC 8 full level  
**B41J 2/135** (2006.01); **B41J 2/16** (2006.01)

CPC (source: EP)  
**B41J 2/162** (2013.01); **B41J 2/1626** (2013.01); **B41J 2/1634** (2013.01)

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**EP 0743184 A2 19961120**; **EP 0743184 A3 19970716**; CA 2176856 A1 19961119; JP H0999560 A 19970415

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**EP 96303396 A 19960514**; CA 2176856 A 19960517; JP 12470096 A 19960520