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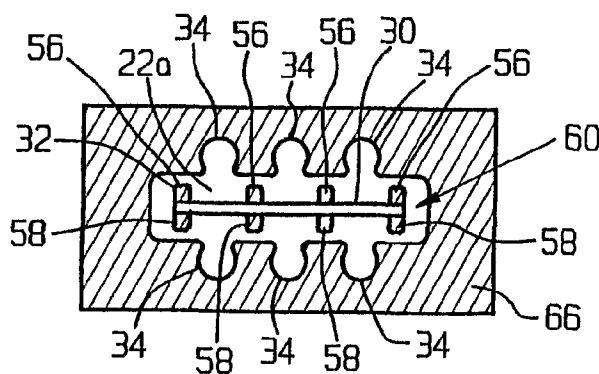


Fig. 3

(57) Abstract: An imageable support matrix for printhead nozzle plates and a method for manufacturing the printhead. The ink jet printhead comp a substrate (22) including an ink via (30) therein; a first layer (24) of imageable material, the first layer of imageable material having conducting voids therein and defining support structures adjacent the ink via; and a second layer (26) of imageable material dispose on the first layer of imageable material, the second layer of imageable material including ink jet nozzles (28) therein. The method includes providing a substrate, applying a first layer of imageable material on the substrate; masking the applied first layer of image a material; and developing the masked first layer of imageable material to provide ink conducting voids in the first layer of imageable material and hardened areas of support The method further includes creating an ink via in the substrate; applying a second layer of imageable material on the first layer of imageable material; and forming nozzles (28) in the second layer of imageable material.



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B. FIELDS SEARCHED
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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched :

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
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C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5,463,413 A (HO et al.) 31 October 1995 (31.10.1995), column 2, lines 44-column 3, lines 39.	1-38
Y	US 5,808,644 A (IMAMURA et al.) 15 September 1998 (15.09.1998), column 7, lines 30-68.	1-38
Y	US 5,375,326 A (USUI et al.) 27 December 1994 (27.12.1994), column 4, lines 56-66.	1-38
Y	New high transparent resist and process technology for KrF excimer laser lithography, IEEE, December 1988, pages 88-91.	1-38
Y	JP 06-294903 A (DAINIPRON PRINTING CO LTD) 08 April 1993 (08.04.1993), constitution.	1-38
Y	Next generation coating technologies for low-cost electronics manufacturing, IEEE, October 1996, pages 468-475.	1-38

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