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(71) Applicant: **EASTMAN KODAK COMPANY**
Rochester, New York 14650 (US)

(72) Inventors:
• **Anagnostopoulos, Constantine N.**
Rochester, New York 14650-2201 (US)

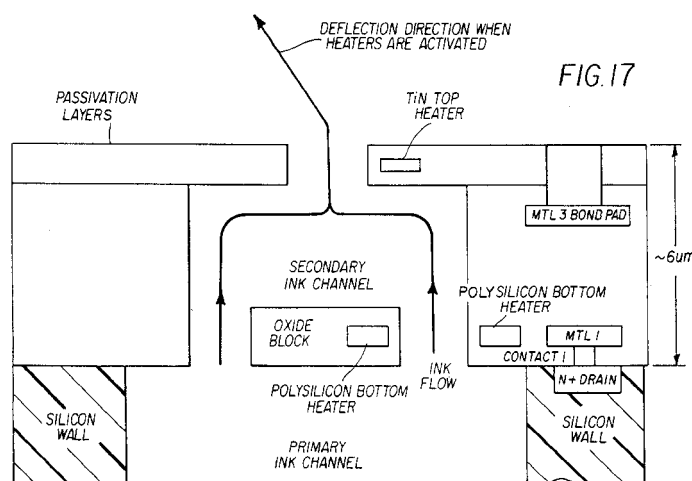
- **Lebens, John A.**
Rochester, New York 14650-2201 (US)
- **Trauernicht, David P.**
Rochester, New York 14650-2201 (US)
- **Chwalek, James M.**
Rochester, New York 14650-2201 (US)
- **Delametter, Christopher N.**
Rochester, New York 14650-2201 (US)
- **Hawkins, Gilbert A.**
Rochester, New York 14650-2201 (US)

(74) Representative: **Haile, Helen Cynthia et al**
Kodak Limited
Patent, W92-3A,
Headstone Drive
Harrow, Middlesex HA1 4TY (GB)

(54) **Cmos/mems integrated ink jet print head and method of forming same**

(57) An ink jet print head is formed of a silicon substrate that includes an integrated circuit formed therein for controlling operation of the print head. The silicon substrate has one or more ink channels formed therein along the longitudinal direction of the nozzle array. An insulating layer or layers overlie the silicon substrate and has a series or an array of nozzle openings or bores

formed therein along the length of the substrate and each nozzle opening communicates with an ink channel. The area comprising the nozzle openings forms a generally planar surface to facilitate maintenance of the printhead. A heater element is associated with each nozzle opening or bore for asymmetrically heating ink as ink passes through the nozzle opening or bore.





European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 01 13 0224

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The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 20 January 2003	Examiner Didenot, B
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

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**ANNEX TO THE EUROPEAN SEARCH REPORT
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