

Title (en)
Inkjet printhead

Title (de)
Tintenstrahldruckkopf

Title (fr)
Tête d'impression à jet d'encre

Publication
EP 1046505 A1 20001025 (EN)

Application
EP 00201374 A 20000418

Priority
• EP 00201374 A 20000418
• EP 99201243 A 19990419

Abstract (en)
Ink jet printhead comprising: at least one ink channel (16) connected to a nozzle (18) and defined between to opposed side walls (20); a membrane (22) interconnecting the side walls; and actuating means (24) arranged adjacent to the membrane (22) for deflecting the same, characterized in that the side walls (20) and the membrane (22) are formed by a one-piece member (14). <IMAGE>
Three-dimensionally structured metal foil (14) is formed on the top surface of substrate (12) to define a number of ink channels (16), each leading to a nozzle (18). Each ink channel (16) has a pair of opposed side walls (20) joined by a membrane (22) formed in a one-piece member. Piezo-electric actuators (24) are formed on each membrane (22) which, when electrically activated, cause an ink drop to be expelled from nozzle (18).

IPC 1-7
B41J 2/14

IPC 8 full level
B41J 2/14 (2006.01)

CPC (source: EP)
B41J 2/14201 (2013.01)

Citation (applicant)
• EP 0819524 A1 19980121 - OCE TECH BV [NL]
• US 4657631 A 19870414 - NOGUCHI HIROMICHI [JP]

Citation (search report)
• [A] US 5876582 A 19990302 - FRAZIER A BRUNO [US], et al
• [A] EP 0827833 A2 19980311 - TOPAZ TECH INC [US]
• [A] PATENT ABSTRACTS OF JAPAN vol. 011, no. 356 (M - 644) 20 November 1987 (1987-11-20)

Designated contracting state (EPC)
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