

Title (en)
Ink jet nozzle head with backing member

Title (de)
Tintenstrahldüsenkopf mit einem Trägerkörper

Title (fr)
Tête à buse à jet d'encre avec un élément de support

Publication
EP 0819526 B1 20000510 (EN)

Application
EP 97202038 A 19970707

Priority
• EP 97202038 A 19970707
• EP 96202043 A 19960718

Abstract (en)
[origin: EP0819526A1] Ink jet nozzle head comprising: a channel plate (12) defining a linear array of equidistant nozzles (14) and a number of parallel ink channels (16) each connected to a respective one of the nozzles, an array of fingers (26, 28) disposed on one side of the channel plate (12) such that the fingers project towards the nozzle plate, some of the fingers (26) being configured as actuators for exerting mechanical strokes on the ink contained in the ink channels, so as to expel ink droplets from the nozzles, at least one actuator being provided for each nozzle, the other fingers (28) serving as support members for supporting the channel plate and the backing member against the reaction forces of the actuators, and backing means mechanically interconnecting the actuators and support members on the side opposite to the channel plate characterized in that the backing means comprise a separate backing member (32) disposed over the array of fingers (26, 28), said backing member being more flexible in the transverse direction of the ink channels (16) than in the longitudinal direction thereof. <IMAGE>

IPC 1-7
B41J 2/045; **B41J 2/14**

IPC 8 full level
B41J 2/14 (2006.01); **B41J 2/16** (2006.01)

CPC (source: EP)
B41J 2/14274 (2013.01); **B41J 2/1612** (2013.01); **B41J 2/1623** (2013.01); **B41J 2/1632** (2013.01); **B41J 2002/14379** (2013.01)

Designated contracting state (EPC)
DE FR GB IT NL

DOCDB simple family (publication)
EP 0819526 A1 19980121; **EP 0819526 B1 20000510**

DOCDB simple family (application)
EP 97202038 A 19970707