

Title (en)
Ink jet nozzle head

Title (de)
Tintenstrahldüsenkopf

Title (fr)
Tête à buse à jet d'encre

Publication
EP 0820869 B1 20000510 (EN)

Application
EP 97202087 A 19970708

Priority
• EP 97202087 A 19970708
• EP 96202042 A 19960718

Abstract (en)
[origin: EP0820869A1] 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) and extending in parallel with the ink channels, and a backing member (32) disposed on the side of the array of fingers opposite to the channel 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, wherein the pitch (a) of the support members (28) is larger than that (b) of the nozzles (14) and wherein the fingers are evenly distributed over the length of the nozzle array. <IMAGE>

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

IPC 8 full level
B41J 2/14 (2006.01)

CPC (source: EP)
B41J 2/14274 (2013.01)

Cited by
EP1291181A1; DE10026133B4; EP0875381A3; US6702430B2; EP1078761A2; US6676248B1; US6231169B1; US7976124B2; EP1886816A1

Designated contracting state (EPC)
DE FR GB IT NL

DOCDB simple family (publication)
EP 0820869 A1 19980128; EP 0820869 B1 20000510

DOCDB simple family (application)
EP 97202087 A 19970708