

Title (en)

Ink jet print head and ink jet printing apparatus provided with said ink jet print head

Title (de)

Tintenstrahldruckkopf und Tintenstrahldruckvorrichtung mit diesem Tintenstrahldruckkopf

Title (fr)

Tête d'impression par jet d'encre et dispositif d'impression par jet d'encre muni de cette tête

Publication

**EP 0960733 A3 20000105 (EN)**

Application

**EP 99117364 A 19931018**

Priority

- EP 93922649 A 19931018
- JP 28027592 A 19921019
- JP 28027692 A 19921019

Abstract (en)

[origin: EP0960733A2] An ink jet head, including (i) a plurality of discharging outlets (D; 4) disposed in an arrangement direction; (ii) a plurality of ink pathways (31), each of said ink pathways (31) communicating with an associated one of said discharging outlets (D; 4), each of said ink pathways (31) having an energy generating element for generating energy for discharging an ink from said discharging outlet (D; 4); and (iii) a discharging outlet face (1A; 8) having a discharging outlet surface, said discharging outlets (D; 4) being arranged in said discharging outlet surface and a water-repellent discharging outlet peripheral region (E; 7) circumscribing said discharging outlets (D; 4), and having a first side and a second side, herewith a recessed hydrophilic region (9) circumscribing said water-repellent discharging outlet peripheral region (E; 7), said recessed hydrophilic region (9) being positioned along the arrangement direction of the discharging outlets (D; 4) on at least one said side of said water-repellent discharging outlet peripheral region (E; 7), said recessed hydrophilic region (9) being separated by a predetermined distance from said water-repellent discharging outlet peripheral region (E; 7). <IMAGE> <IMAGE>

IPC 1-7

**B41J 2/135; B41J 2/16**

IPC 8 full level

**B41J 2/14** (2006.01); **B41J 2/16** (2006.01); **B41J 2/165** (2006.01)

CPC (source: EP)

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Citation (search report)

- [AD] EP 0468712 A2 19920129 - CANON KK [JP]
- [AD] EP 0389217 A2 19900926 - AM INT [US]
- [XA] PATENT ABSTRACTS OF JAPAN vol. 14, no. 285 (M - 0987) 20 June 1990 (1990-06-20)

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