

(19)



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(11)

EP 0 960 733 A3

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3:
05.01.2000 Bulletin 2000/01

(51) Int. Cl.⁷: **B41J 2/135, B41J 2/16**

(43) Date of publication A2:
01.12.1999 Bulletin 1999/48

(21) Application number: **99117364.2**

(22) Date of filing: **18.10.1993**

(84) Designated Contracting States:
**AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL
PT SE**

(30) Priority: **19.10.1992 JP 28027592
19.10.1992 JP 28027692**

(62) Document number(s) of the earlier application(s) in
accordance with Art. 76 EPC:
93922649.4 / 0 631 869

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(54) **Ink jet print head and ink jet printing apparatus provided with said ink jet print head**

(57) 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) circum-

scribing 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).

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FIG. 11(A)

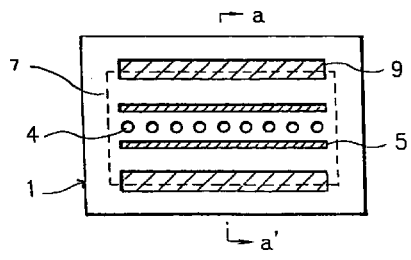
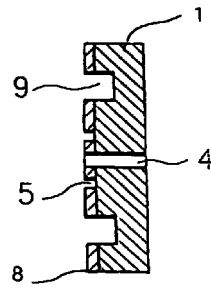


FIG. 11(B)





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EUROPEAN SEARCH REPORT

Application Number
EP 99 11 7364

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Place of search	Date of completion of the search	Examiner	
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CATEGORY OF CITED DOCUMENTS		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	
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			

EPO FORM 1503 03.82 (P04C01)

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