

Title (en)
INK JET HEAD HAVING IMPROVED JET PORT SURFACE, AND INK JET APPARATUS EQUIPPED WITH THE INK JET HEAD

Title (de)
TINTENSTRAHLKOPF MIT VERBESSERTER TINTENSTRAHLÖFFNUNGSOBERFLÄCHE UND TINTENSTRAHLGERÄT DAMIT VERSEHEN

Title (fr)
TETE A JET D'ENCRE PRESENTANT UNE SURFACE D'ORIFICE DE JET D'ENCRE AMELIOREE, ET APPAREIL A JET D'ENCRE DOTE DE CETTE TETE

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Application
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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>

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