

Title (en)

Electrostatic ink jet recording head

Title (de)

Elektrostatischer Tintenstrahldruckkopf

Title (fr)

Tête d'impression électrostatique à jet d'encre

Publication

EP 0780229 A1 19970625 (EN)

Application

EP 96120204 A 19961216

Priority

JP 32884595 A 19951218

Abstract (en)

An electrostatic ink jet recording head has an ejection electrode (4) which enables a printing of an excellent quality and a high accuracy. The recording head has a head body (100) defining an ink chamber (1) for receiving liquid ink containing charged toner particles. A set of electrodes including an electrophoretic electrode (5a, 5B), a plurality of ejection electrodes (4) and an opposing electrode (6) are provided for ejecting the toner particles substantially without an insulating solvent. The ejection electrode (4) has a tip of a sharp edge protruding from the ejection opening (2) of the ink chamber (1). The ejection electrode (4) has a capillary slit (17) for introducing the ink toner therethrough and for forming an excellent meniscus by a capillary action. <IMAGE>

IPC 1-7

B41J 2/06

IPC 8 full level

B41J 2/06 (2006.01); **B41J 2/385** (2006.01)

CPC (source: EP)

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Citation (search report)

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