

Title (en)

Liquid projecting process and high resolution printing device in a continuous ink jet printer to perform this process.

Title (de)

Verfahren zum Ausstossen von Flüssigkeit und Vorrichtung zum hochauflösenden Drucken an einem kontinuierlich arbeitenden Tintenstrahldrucker und Verfahrensdurchführung.

Title (fr)

Procédé de projection de liquide et dispositif d'impression haute-résolution dans une imprimante à jet d'encre continu mettant en oeuvre ce procédé.

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Application

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Abstract (en)

[origin: EP0521764A1] The present invention relates to a liquid projection method and a high-resolution printing device in a continuous, stimulated ink jet printer. A jet of ink (1) is split up into drops (11) in the vicinity of an electrostatic charge device (7) for these drops creating an electric field which is asymmetric with respect to the axis (D) of the jet (1). The method comprises, first of all, creation of a single microdrop (14) at the upstream end of a main drop, by application of a charge voltage (VM) greater than the Rayleigh voltage, in the charge device at the appearance of this main drop. Next, deflection of the microdrop intended for printing is brought about by application of a charge voltage (Vc) to the following main drop, lower than the charge voltage (VM) and the Rayleigh voltage, which is modulable as a function of the trajectory chosen for the microdrop towards the printing medium (15). <IMAGE>

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