

Title (en)

A method of printing in a device for direct electrostatic printing comprising a printhead structure with deflection electrodes and a means for electrically controlling said deflection electrodes.

Title (de)

Druckverfahren und Steuerung für Druckkopf mit Ablenkelektroden zum direkten elektrostatischen Drucken

Title (fr)

Méthode d'impression et contrôle pour une tête d'impression avec électrodes de déviation pour l'impression électrostatique directe

Publication

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Application

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Priority

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- EP 98201965 A 19980609

Abstract (en)

[origin: EP0963852A1] A device for direct electrostatic printing with an addressability AD in dots per cm having a means for delivering charged toner particles coupled to a means for applying a first electric potential (DC1) and a means (DC4) for applying an electric field between the means for delivering toner particles and an image receiving substrate (108). The electric potential difference $|DC4-DC1|$ creates a flow of the charged toner particles (104) towards the substrate. In the flow of toner particles a printhead structure is placed having printing apertures, control electrodes associated therewith and deflection electrodes. Between the printhead structure and the image receiving substrate, a gap, dB, is left so that $(|DC4-DC1|)/dB = R1 \leq 1.5 \text{ V}/\mu\text{m}$. The deflection electrodes are coupled to a voltage source for applying a varying voltage to the deflection electrodes. Preferably that varying voltage has a peak to peak value, Vp, so that $Vp/R1 > 250 \mu\text{m}$.

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