

Title (en)

A device for direct electrostatic printing (DEP) comprising a printhead structure with slit aperture

Title (de)

Vorrichtung zum direkten elektrostatischen Drucken mit einer Druckkopfstruktur mit Schlitzöffnungen

Title (fr)

Dispositif d'impression électrostatique directe avec une structure d'une tête d'impression avec ouvertures à fente

Publication

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Application

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Priority

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Abstract (en)

[origin: EP0780740A1] A DEP device is provided that comprises : a back electrode (105), a printhead structure, comprising an insulating substrate (102), a control electrode (102a) and a slit aperture (103) through which a particle flow can be electrically modulated by the control electrode (102a), a toner delivery means (101), characterised in that only on one side of said slit aperture, control electrodes (102a) are present. In a preferred embodiment the printhead structure is realized by a slit having two sides, side A (SA) and side B (SB), defined by two edges (A and B), which are formed by at least one sheet of insulating material. The insulating material has an elasticity modulus (Young's Modulus, YM) fulfilling the equation $0.1 \text{ GPa} \leq \text{YM} \leq 10 \text{ GPa}$ and the edges A and B being placed with respect to each other at an angle α fulfilling the equation $0 \text{ DEG} \leq \alpha < 45 \text{ DEG}$. <IMAGE>

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IPC 8 full level

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CPC (source: EP)

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Cited by

EP0965894A1; EP0895867A3; EP0900658A3; EP0963852A1; EP0963853A1; WO9942907A1; EP0983858A1; US6331046B1; EP1090770A1; US6309049B1

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