

Title (en)

Method and apparatus for electrostatic imaging.

Title (de)

Verfahren und Gerät zum elektrostatischen Bildaufbau.

Title (fr)

Méthode et appareil pour la formation d'images électrostatiques.

Publication

EP 0541841 A1 19930519 (EN)

Application

EP 91119221 A 19911112

Priority

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Abstract (en)

In electrostatic imaging utilizing a silent electric discharge printer print quality is improved by supplying a gas under pressure to the electric discharge region (22) defined by a solid dielectric member (26) with driver (24) and control (25) electrodes on opposite surfaces of the dielectric, with an edge surface of the control electrode disposed opposite the driver electrode to define the discharge region (22) at the junction of the edge surface and the solid dielectric member. "White death", "black death", and "red death" of the ion cartridge (14) may effectively be put off. Nitrogen, or a mixture of nitrogen with a noble gas or the like, is supplied to the discharge region (22). The gas may be supplied to the volume between the control electrode control fingers and a screen electrode (31) of the ion cartridge (14), or may be supplied through a conventional cartridge mounting rail (18) to the first part of the volume between the imaging drum (12) and ion cartridge (14) in the direction of rotation of the imaging drum (12).
<IMAGE>

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IPC 8 full level

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CPC (source: EP)

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Citation (search report)

- [A] DE 2645928 A1 19780413 - AGFA GEVAERT AG
- [A] DE 2515578 A1 19761021 - SIEMENS AG
- [A] DE 2148001 A1 19730329 - AGFA GEVAERT AG

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