

Title (en)

Biasing scheme for improving latitudes in the tri-level xerographic process.

Title (de)

Polarisierungsweise zur Verbesserung der Eigenschaften der Drei-Niveau-Xerographie.

Title (fr)

Méthode de polarisation pour améliorer les caractéristiques du procédé xéographique à trois niveaux.

Publication

**EP 0429309 B1 19941214 (EN)**

Application

**EP 90312719 A 19901122**

Priority

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- US 44091489 A 19891122

Abstract (en)

[origin: EP0429309A2] The operating latitude of the tri-level xerographic process is improved by replacing the standard DC bias that is applied to one or both of the developer housings (32, 34) in conventional tri-level imaging with a chopped DC (CDC) developer bias (41, 43). Chopped DC biasing is the alternate application of two discrete bias voltages to a developer structure in a periodic fashion at a given frequency, with the period of each cycle divided up between the two bias levels at a duty cycle of from 5-10% or 90-95% depending upon which of the two developer structures is being biased. In the case of the DAD developer structure (32) the duty cycle of the higher of the two biases is 5-10% and in the case of a CAD developer structure (34) the duty cycle of the higher of the two biases is 90-95%. The apparatus can be switched to operate in a black monochrome mode, in which only the black developer structure (34) is biased using a standard monochrome bias (4-5).

IPC 1-7

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CPC (source: EP US)

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