

Title (en)

PRINTING METHOD FOR A DIGITAL PRINTING DEVICE

Title (de)

DRUCKVERFAHREN FÜR EINE DIGITALE DRUCKVORRICHTUNG

Title (fr)

PROCÉDÉ D'IMPRESSION POUR UN DISPOSITIF D'IMPRESSION NUMÉRIQUE

Publication

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Application

**EP 18827251 A 20181204**

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Abstract (en)

[origin: WO2019111147A1] The invention relates to a printing method for a digital printing device, comprising a printhead having a plurality of printing systems and comprising at least one control apparatus for feeding control signals to the printing systems for the production of ink drops. Each printing system has a nozzle, at least one ink chamber and an activator, e.g. a piezoelectric activator, which is associated with the at least one ink chamber, for the discharge of ink drops from the ink chamber in question via the nozzle in question onto a substrate to be printed on, as a response to a control signal. In the control apparatus, only a signal waveform for the control signal having a specified time curve is stored for ink drops of all sizes, comprising, for example, optionally an initial waiting time, a first edge, followed by a first holding time, and after the first holding time a second, opposite edge, optionally followed by a second holding time. The size and/or speed of ink drops is varied by virtue of the fact that, at most for a single, intrinsic drop size, the entire stored waveform is transferred as a control signal to the activator in question, while for all other, effective drop sizes, only part of the common, stored waveform is transferred to the activator in question, namely one or more selected portions, while one or more other portions of the stored, common waveform are not supplied to the activator in question in the control signal.

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