

Title (en)

A reliable calibration method for industrial inkjet systems

Title (de)

Zuverlässiges Kalibrierverfahren für industrielle Tintenstrahlsysteme

Title (fr)

Procédé d'étalonnage fiable pour des systèmes à jet d'encre industrielle

Publication

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Application

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Priority

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Abstract (en)

A calibration method for an industrial inkjet system, which comprises printheads ($H_{1,1}, \dots, H_{N,M}$) that are positioned in a matrix, comprising the steps: - selecting a printhead ($H_{i,j}$), a working parameter for printheads, a sensitive field (F) with a set of P sensitive values (V_1, \dots, V_P) which corresponds to the working parameter; - forming a calibration target by generating for each sensitive value (V_k) of the set of P sensitive values (V_1, \dots, V_P) a calibration patch ($P_{i,j,k}$), based on the sensitive value (V_k) wherein the sensitive field (F) is located; and an optical-machine-readable code ($C_{i,j,k}$) to refer to the corresponding patch ($P_{i,j,k}$) and to encode an identification ($I_{i,j}$) of the printhead ($H_{i,j}$) and the sensitive value (V_k); - jetting the calibration target and selecting a calibration patch ($P_{i,j,r}$) by comparing the calibration patches ($P_{i,j,1}, \dots, P_{i,j,P}$); - scanning and decoding the optical-machine-readable code ($C_{i,j,r}$), which refers to the selected calibration patch ($P_{i,j,r}$) and adapting a value of the working parameter according to the sensitive value (V_r) and identification ($I_{i,j}$) of the decoded scanned optical-machine-readable code ($C_{i,j,r}$).

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CPC (source: EP)

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Citation (applicant)

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