

Title (en)

Multi-resolution printing method and printing device

Title (de)

Druckverfahren mit mehreren Auslösungen und Druckvorrichtung

Title (fr)

Méthode d'impression à résolutions multiples et dispositif d'impression

Publication

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Application

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Priority

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Abstract (en)

The present invention provides a method of printing an image onto a printing medium using a printing system having an elongate printhead (10) with an array of marking elements (A, B, C, A, B, C) comprising at least one group of marking elements (A, B, C). The marking elements form at least one row (6, 7, 8), the direction of which forms a longitudinal axis of the printhead (10). The printhead (10) is driven in a fast scan direction (F) to print in one pass marks on the printing medium along one swath of print, and the printing medium and the printhead (10) are movable relative to each other in a slow scan direction (S) to print further swaths. The printing system is such that two adjacent marking elements of a group are fireable with a time difference T but are not fireable simultaneously without causing a printing defect. According to the invention, the printhead (10) is operated such that adjacent marking elements of one group are fireable (depending on an image to be printed) at instants of time separated by the time T to form a series of parallel lines (31) of print at a non-zero angle with respect to the longitudinal axis of the printhead (10), whereby the series of parallel lines (31) do not form the complete image. Printing passes are repeated in the fast scan direction (F) to print at intermediate positions between the parallel lines (31) to print the complete image. <??>A corresponding printing device and control unit are also provided. <IMAGE>

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B41J 2/505; B41J 2/045

IPC 8 full level

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CPC (source: EP)

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Citation (applicant)

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