

Title (en)

Method for controlling the paper-feeding in a printing device.

Title (de)

Verfahren zur Steuerung des Papiervorschubs in einer Druckeinrichtung.

Title (fr)

Procédé pour contrôler l'alimentation du papier dans un dispositif à imprimer.

Publication

EP 0189798 A1 19860806 (DE)

Application

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Priority

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Abstract (en)

1. Method of controlling the paper feeding in a printing device, in which the paper web (3) is introduced by means of a feeding device into the paper guide channel of a platen (6) and, after partially wrapping round this platen (6), is led past a print head (7), transported up to a feeling element (9), sensing the leading edge of the paper, and subsequently aligned with the first print line in a backward movement, using a microprocessor-controlled stepping motor drive for the platen (6), characterized in that, starting from a beginning of the paper web placed in the feed tractors (5) at any point, the paper web (3) is transported with full-line feed up to the feeling element (9), in that, after signalling of the leading edge of the paper by the feeling element (9), the feed is switched with at least a half-line increment in backwards direction and subsequently again in fractions of halfline increments in forwards direction until the renewed signalling of the leading edge of the paper by the feeling element (9), the full-line increment or the fraction of a half-line increment just begun in each case being ended after the signalling of the leading edge of the paper by the feeling element (9), and in that subsequently the paper web (3) is transported back, with respect to the predetermined distance between feeling element (9) and print head (7), in as many increments as it takes until the print head is aligned with the first print line precisely to the fraction of a half-line increment.

Abstract (de)

Ausgehend von einer mit einer Randlochung versehenen Endlospapierbahn (3), die an, beliebiger Stelle in die Vorschubraupen (5) eingelegt werden kann, erfolgt zunächst ein Ganzzeilenvorschub bis zu einem nach dem Druckkopf (7) angeordneten, die Papierbahnvorderkante abtastenden Federelement (9). Nach Signalisierung der Papiervorderkante durch das Fühlelement (9) wird der Vorschub mit wenigstens einem Halbzeilenschritt in Rückwärtsrichtung und anschließend wieder in Bruchzeilen von Halbzeilenschritten in Vorwärtsrichtung bis zur erneuten Signalisierung der Papiervorderkante durch das Fühlelement (9) geschaltet. Schließlich wird die Papierbahn (3), bezogen auf den fest vorgegebenen Abstand zwischen Fühlelement (9) und Druckkopf (7), in so vielen Schritten zurücktransportiert, bis der Druckkopf (7) auf die erste Druckzeile ausgerichtet ist.

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