

Title (en)

GRAVURE PRINTING SYSTEM, SUBSTRATE PORTION, METHOD FOR CONTROLLING A RELATIVE POSITION AND METHOD FOR OPERATING A GRAVURE PRINTING SYSTEM

Title (de)

TIEFDRUCKWERK, SUBSTRATABSCHNITT, VERFAHREN ZUR KONTROLLE EINER RELATIVLAGE UND EIN VERFAHREN ZUM BETREIBEN EINES TIEFDRUCKWERKS

Title (fr)

SYSTÈME D'IMPRESSION EN CREUX, SECTION DE SUBSTRAT, PROCÉDÉ POUR LA COMMANDE D'UNE POSITION RELATIVE ET PROCÉDÉ DE FONCTIONNEMENT D'UN SYSTÈME D'IMPRESSION EN CREUX

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Abstract (en)

[origin: WO2020224815A1] The invention relates to a gravure printing system (500), by which substrate (S; S') can be printed according to a gravure printing method, comprising a form cylinder (503) which has an image-forming pattern of recesses (514) on its circumference, and an inking unit (508), by which the pattern of recesses (514) provided on the form cylinder (503) can be at least partially inked, wherein the form cylinder (503) can be partially inked from the direction of an inking device (511) via a first inking unit cylinder (512), which has recesses (513) in the region of its lateral surface (518) corresponding to recesses (514) on the form cylinder (503), and via a second inking unit cylinder (519) which is to be partially inked by the first inking unit cylinder (512). In order to produce an image element (761; 762; 763; 764) which is used to check a relative position between form cylinder and first inking unit cylinder (503; 512) within the printing width, but preferably outside of a circumferential region lying outside of the image-generating pattern of recesses (514) providing the printing format of one or several copies (Ni), the form cylinder (503) comprises at least a first recess (514.1; 514.2) which only partially overlaps on the form cylinder (503) with the projection, which is obtained on the form cylinder (503) by the unreeling - carried out in each case in pairs - of the inking unit cylinders (512; 519; 531) participating in the ink transport, of a recess (513.1; 513.3; 513.2; 513.4) which is provided in a defined position and location on the circumference of the first inking unit cylinder (512) for checking the relative position. The invention also relates to a substrate portion (S; S') and to a method for checking and/or adjusting and/or correcting a relative position between the first inking unit cylinder (512) and the form cylinder (503).

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