

Title (en)

Sheet-fed printing press and process for orienting magnetic flakes contained in an ink or varnish vehicle applied on a sheet-like substrate

Title (de)

Bogendruckmaschine und Verfahren zur Ausrichtung von Magnetspänen in einer Tinte oder einem Lackmedium zum Auftragen auf ein bogenähnliches Substrat

Title (fr)

Presse à imprimer sur feuilles et procédé pour orienter des flocons magnétiques contenus dans un véhicule d'encre ou de vernis appliqués sur un substrat de type feuille

Publication

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Application

EP 14193754 A 20100924

Priority

- EP 14193754 A 20100924
- EP 10179681 A 20100924

Abstract (en)

There is described a sheet-fed printing press and method for orienting magnetic flakes contained in an ink or varnish vehicle applied on sheets. The printing press comprises a printing group (2) designed to apply an ink or varnish vehicle containing magnetic flakes on successive sheets and system designed to orient the magnetic flakes contained in the ink or varnish vehicle applied on the sheets. The system comprises a processing unit (10*) with at least one magnetic-field-inducing device for orienting the magnetic flakes contained in the ink or varnish vehicle applied on the sheets, which processing unit (10*) is located along a path of the sheets in such a way that the each sheet is brought into contact with or in close proximity to the processing unit (10*) and the at least one magnetic-field-inducing device. The processing unit (10*) comprises a cylinder body (10), the at least one magnetic-field-inducing device being disposed on an outer circumference of the cylinder body (10). The printing press further comprises a first chain conveyor system (31) designed to transport and transfer the sheets to the processing unit (10*) and a second chain conveyor system (32) designed to take away the sheets from the processing unit (10*). The system further comprises at least one drying or curing unit (60) disposed in the vicinity of the cylinder body (10) for drying or curing the ink or varnish vehicle to fix the orientation of the magnetic flakes contained therein while the sheet is still in contact with or in close proximity to the cylinder body (10) and the at least one magnetic-field-inducing device before the sheet is taken away from the at least one magnetic-field-inducing device.

IPC 8 full level

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