

## Title (en)

MODULAR PRINTING PRESS ARRANGEMENT FOR SEQUENTIAL PROCESSING OF SHEET-LIKE SUBSTRATES

## Title (de)

MASCHINENANORDNUNG IN MODULBAUWEISE ZUM SEQUENTIELLEN BEARBEITEN BOGENFÖRMIGER SUBSTRATE

## Title (fr)

ENSEMBLE MACHINE MODULAIRE DESTINÉ AU TRAITEMENT SÉQUENTIEL DE FEUILLES

## Publication

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## Application

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## Abstract (en)

[origin: WO2016174225A2] The invention relates to a method and machine arrangements for sequential processing of sheet-like substrates, in which a front side and/or rear side of said substrates is/are respectively processed in a production line one after the other, wherein a printing ink or ink is applied in at least one non-impact printing device on the respective side of the substrates, wherein the printing ink or ink is dried. A dispersion coating or a coating cured by UV radiation is then applied onto the respective side of the substrates, the dispersion coating or the coating cured by UV radiation being dried and the substrates being fed to a mechanical processing device for carrying out a further mechanical processing of the substrates. According to the invention, the further mechanical processing is performed by punching and/or inserting grooves and/or separating parts and/or by breaking out panels from their respective composite in the respective substrate.

## Abstract (de)

Die Erfindung betrifft eine Maschinenanordnung mit mehreren Bearbeitungsstationen zur Bearbeitung von Bogen, wobei in Transportrichtung (T) der Bogen mehrere Bearbeitungsstationen (01; 02; 03; 04; 06; 07; 08; 09; 11; 12) nacheinander zur Inline-Bearbeitung dieser Bogen angeordnet sind, wobei wenigstens eine dieser Bearbeitungsstationen (06) als eine Non-Impact-Druckeinrichtung (06) und mindestens eine in Transportrichtung (T) der Bogen der Non-Impact-Druckeinrichtung (06) nachgeordnete Bearbeitungsstation (02; 03; 04; 07; 08; 09; 11; 12) als ein Trockner (07; 09) ausgebildet sind.

## IPC 8 full level

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- [YD] DE 102009000518 A1 20100805 - MANROLAND AG [DE]
- [YD] DE 10312870 A1 20040226 - HESTERMAN EBE [NL]
- [AD] EP 2657025 A1 20131030 - KOMORI CORP [JP]
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