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1) Family number: 68878006 (US2018071771A)

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Title: DETACHING APPARATUS AND DETACHING METHOD

Abstract: A first movable body is provided movably in a separation direction and a first engaging member is provided for each suction unit. When the first movable body is moved in the separation direction, the plurality of first engaging members are respectively engaged with the first movable body in the same sequence as an array sequence of the suction units. Thereafter, the suction units are moved in the separation direction together with the first movable body.

Classifications:

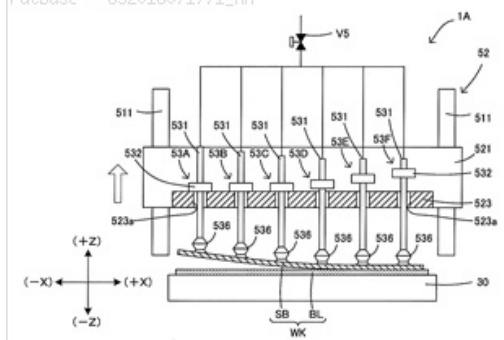
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CPC: B05C11/00 B41F16/00 B05C1/025 B05D1/28 H01L21/67132 B41F1/56 B41F23/08 H01L21/67092 H01L2924/35121 B41F16/0073 H01L21/00 H01L21/6838 B41F17/00 B41F19/00 B41F23/00

JP F-Term: 2C036 2C046

JP F-Index: B41F1/16 B41F1/32 B41F17/14/E

PatBase - US2018071771_AA



Family:

Publication number	Publication date	Application number	Application date
CN107813594 A	20180320	CN201710573757	20170714
CN107813594 B	20190322	CN201710573757	20170714
JP2018043377 A2	20180322	JP20160178523	20160913
JP2018043515 A2	20180322	JP20170059253	20170324
KR101953974 B1	20190304	KR20170076716	20170616
KR20180029836 A	20180321	KR20170076716	20170616
TW201811571 A	20180401	TW20170114596	20170503
US2018071771 AA	20180315	US20170676256	20170814

Priority:

JP20160178523 20160913 JP20170059253 20170324 KR20170076716 20170616

Probable Assignee: SCREEN HOLDINGS CO LTD

Assignee(s): (std): SCREEN HOLDINGS CO LTD

Assignee(s): SCREEN HOLDINGS CO

Inventor(s): (std): KAJINO ITSUKI ; MASUICHI MIKIO ; SHOJI KAZUHIRO ; UENO HIROYUKI ; UENO MIYOSHI ; UENO MIKA ; MIYOSHI UENO ; MIKIO MASUICHI ; KAZUHIRO SHOJI ; KAJINO KAZUKI ; ITSUKI KAJINO ; HIROYUKI UENO

Agent(s): FURIKADO SHOICHI

2) Family number: 15704029 (US2005167035A)

© PatBase

Title: DIELESS FOILING

Abstract: A method for the application of a transferable layer from a foil (10) to a substrate (34). The method comprises the steps of applying an adhesive in a pattern to one of the substrate and the foil using a drop on demand deposition head (36); curing the adhesive; and transferring the transferable layer in the pattern from the foil to the substrate. There is also provided an apparatus for the application of a transferable layer from a foil to a substrate.

Classifications:

International (IPC 8-9): B32B37/00 B32B37/30 B41F16/00 B41F19/00 B41J11/00 B41M3/00 B41M5/00 B44C1/10 B44C1/16 B44C1/165 B44C1/17 (Advanced/Invention); B32B37/12 B32B38/00 B32B38/10 (Advanced/Non-invention); B32B37/00 B32B37/30 B41F16/00 B41F19/00 B41J11/00 B41M3/00 B41M5/00 B44C1/00 B44C1/16 B44C1/165 B44C1/17 (Core/Invention); B32B37/12 B32B38/00 B32B38/10 (Core/Non-invention)

International (IPC 1-7): B32B31/00 B41F16/00 B41F19/00 B41J11/00 B41M5/00 B44C1/00 B44C1/165 B44C1/17

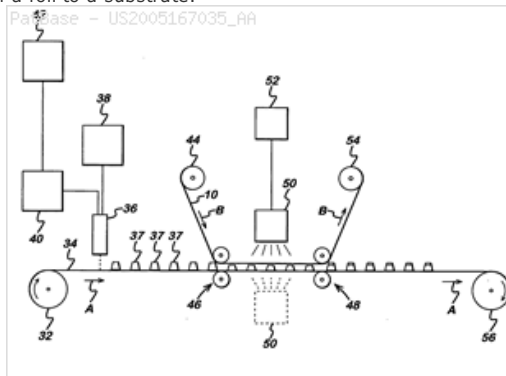
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European: B32B31/00A8B3B B32B31/00K B32B37/00D B32B37/12D2 B41F16/00 B41F19/00 B41M3/00P B44C1/10B L32B31/00D10 L32B31/00D16 L32B37/02B L32B37/12D2 L32B38/00A L32B38/00F6 L32B38/10 T05K1/02D4 T05K203/01A6 T05K203/05A7 T05K3/04E

US: 156/230 156/233 156/233S 156/272.2 156/272.200S

JP F-Term: 2H086 2H086/BA02 2H086/BA15 2H086/BA51 2H186 2H186/AA01 2H186/AA16 2H186/AB11 2H186/AB12 2H186/AB13 2H186/BA02 2H186/BA13 2H186/BB01 2H186/BC18 2H186/BC22 2H186/DA09 2H186/FA08 2H186/FA09 2H186/FB34 3B005 3B005/EA01 3B005/EA04 3B005/EA12 3B005/EB03 3B005/EB05 3B005/EC00 3B005/FB01 3B005/FB22 3B005/FB42 3B005/FF00 3B005/GA02 3B005/GA04 3B005/GB01

JP F-Index: B41M5/00/A B41M5/00/100 B44C1/165/K B44C1/17/K B44C1/17/M



Family:

Publication number	Publication date	Application number	Application date
AU2002321483 AA	20030318	AU20020321483	20020816
CA2459119 AA	20040301	CA20022459119	20020816
CN1571730 A	20050126	CN20028020511	20020816
EP1423278 A1	20040602	EP20020755187	20020816
GB200121465 A0	20011024	GB20010021465	20010905
GB200208161 A0	20020522	GB20020008161	20020409
GB200219176 A0	20020925	GB20020019176	20020816
GB2380973 A1	20030423	GB20020019176	20020816
GB2380973 B2	20050615	GB20020019176	20020816
JP2005501761 T2	20050120	JP20030524807T	20020816
US2005167035 AA	20050804	US20050488789	20050308
WO03020519 A1	20030313	WO2002GB03793	20020816

Priority:

GB20010021465 20010905 GB20020008161 20020409 WO2002GB03793 20020816

Probable Assignee: API FOILS LTD

Assignee(s): (std): API FOILS LTD ; GOODFELLOW ROBERT J ; LASKEY PAUL ANDREW ; HINCHCLIFFE TREVOR

Assignee(s): API FOILS LIMITED ; LASKEY PAUL A ; HENRY AND LEIGH SLATER LTD

Inventor(s): (std): ANDREW LASKEY PAUL ; GOODFELLOW ROBERT J ; HINCHCLIFFE TREVOR ; LASKEY PAUL ANDREW ; TREVOR HINCHCLIFFE ; LASKEY PAUL A

Inventor(s): PAUL ANDREW LASKEY ; ROBERT J GOODFELLOW

Agent(s): GRIFFITH HACK; SMART AND BIGGAR; ROTHWELL FIGG ERNST AND MANBECK PC

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LR LS LT LU LV MA MC MD ME MG MK ML MN MR MW MX MZ NE NL NO NZ OM PH PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW

3) Family number: 49705045 (US2013068385A)

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Title: AUTOMATIC FACILITY AND AUTOMATIC METHOD FOR DECORATING ITEMS MADE OF ROUGH OR REFINED GLASS OR OF PLASTIC WITH RAISED PATTERNS

Abstract: The present invention provides an automatic facility for decorating items made of rough or refined glass or of plastic with raised patterns including a carrier for continuously moving the items between a station for loading the items onto the carrier, a station for screen-printing a decoration onto each item with UV ink, a station for ultraviolet pre-polymerization of the ink of the decoration, the ink remaining slightly tacky on the surface, a station applying a paper film using heat by adhering the paper film onto the ink of the decoration and a station for unloading the items towards a tunnel for the final ultraviolet polymerization of the decoration. A method is also provided.

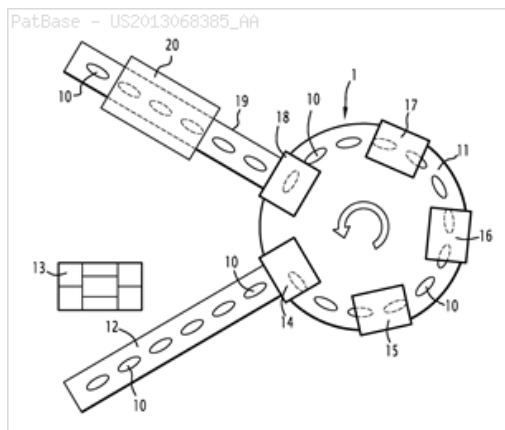
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CPC: B32B38/145 B41F15/0872 B41F15/0881 B41F15/0895 B41F15/12 B41F15/16 B41F16/00 B41F19/00 B41M1/12 B41M1/34 B41M7/0072 B41M7/0081 B41M7/009 B41P2219/43 B41F15/18 C03C27/00

European: B41F15/08E B41F15/08F B41F15/08J B41F15/12 B41F15/16 B41F16/00 B41F19/00 B41M1/12 B41M1/34 L41M7/00R L41P219/430

US: 101/126 156/273.5 156/379.8



Family:

Publication number	Publication date	Application number	Application date
CN102892583 A	20130123	CN201180024534	20110329
CN102892583 B	20150722	CN201180024534	20110329
EP2552696 A1	20130206	EP20110719307	20110329
FR2958210 A1	20111007	FR20100052395	20100331
FR2958210 B1	20120803	FR20100052395	20100331
IN02902KN2012 A	20130614	IN2012KN02902	20121001
MX2012011321 A1	20121130	MX20120011321	20110329
MX343448 B	20161107	MX20120011321	20110329
US2013068385 AA	20130321	US20110638247	20110329
US2016221326 AA	20160804	US20160093258	20160407
WO1121222 A1	20111006	WO2011FR50681	20110329

Priority:

FR20100052395 20100331 WO2011FR50681 20110329 US20120638247 20121204
US20160093258 20160407

Probable Assignee: POCHET DU COURVAL

Assignee(s): (std): AUGER MARCEL ; BENOIT JOHAN ; BINET REGIS ; COURVAL VERRERIES ; POCHET DU COURVAL

Assignee(s): VERRERIES DU COURVAL

Inventor(s): (std): BENOIT JOHAN ; AUGER MARCEL ; BINET REGIS ; MARCEL AUGER ; JOHAN BENOIT ; REGIS BINET

Agent(s): Domenego Bertrand; CABINET LAVOIX; JACOBSON CLAUDE ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

4) Family number: 8558071 (FR2563161A)

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Title: Process and machines for hot printing

Abstract: Process for printing with the aid of a machine having blocks 3 to 6, characterised in that the entire set of blocks 3 to 5, which can be potentially used for the work to be undertaken, is heated to a predetermined temperature and the set to be used is held at this temperature throughout the duration of the work undertaken, each printing pattern thus preheated being ready for being pressed immediately and individually against a suitable ribbon or film 9 for hot printing. Application especially to addressing machines.

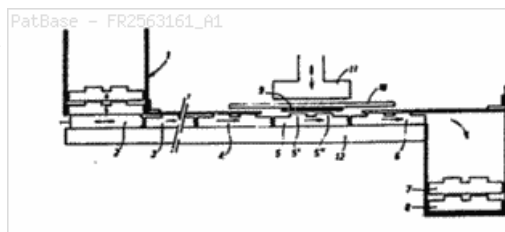
Classifications:

International (IPC 8-9): B41F16/00 B41F19/00 B41J2/315 B41L45/02 B41L47/14 (Advanced/Invention); B41F16/00 B41F19/00 B41J2/315 B41L45/00 B41L47/00 (Core/Invention)

International (IPC 1-7): B41J3/20 B41L45/02 B41L47/14 B41L47/42 B41M5/26

CPC: B41F16/00 B41F19/00 B41J2/315 B41L45/02 B41L47/14

European: B41F16/00 B41F19/00 B41J2/315 B41L45/02 B41L47/14



Family:

Publication number	Publication date	Application number	Application date
FR2563161 A1	19851025	FR19840006202	19840419

Priority:

FR19840006202 19840419

Probable Assignee:

BETTINGER PHILIPPE

Assignee(s): (std):

BETTINGER PHILIPPE

5) Family number: 66691080 (CN107081959A)

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Title: SLIDING TYPE GILDING AND DIE CUTTING AND SINGLE-SHEET CUTTING INTEGRATED MACHINE

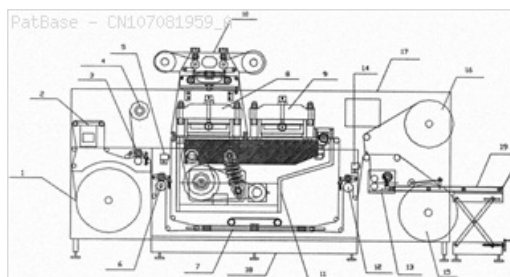
Abstract: The invention discloses a sliding type gilding and die cutting and single-sheet cutting integrated machine. The sliding type gilding and die cutting and single-sheet cutting integrated machine comprises a main rack, a rack chassis, an unwinding device, a digital analog rectifying device, a single-sheet cutting device, a winding device and a waste collecting device, wherein the main rack is fixed to the upper end of the rack chassis, a coating device, a coating and unwinding device, a front traction device, a first color code tracking device, a die cutting transmission device, a back traction device and a second color code tracking device are installed between the digital analog rectifying device and the single-sheet cutting device in sequence, a first die cutting device and a second die cutting device are installed on the upper part of the die cutting transmission device in sequence, a rotary gilding device is installed on the upper part of the first die cutting device, and a sliding device is installed on the lower part of the die cutting transmission device. According to the device, accurate positioning and die cutting of paper are realized, the paper is cut into single sheet in a hobbing mode, the whole process is automatically controlled by a microcomputer control system, and the sliding type gilding and die cutting and single-sheet cutting integrated machine has the advantages of convenience in operation, low operation noise, high operating efficiency and operating accuracy, stable pressure and good use safety.

Classifications:

International (IPC 8-9): B41F16/00 B41F19/00 B41F19/06

B41F33/16 (Advanced/Invention)

CPC: B41F19/00 B41F19/062 B41F33/16 B41P2217/50 B41F16/00



Family:

Publication number	Publication date	Application number	Application date
CN107081959 A	20170822	CN201710167515	20170316

Priority:

CN201710167515 20170316

Probable Assignee:

LAI LIANGCAI

Assignee(s): (std):

LAI LIANGCAI

Assignee(s):

LAI YANGJAE

Inventor(s): (std):

LAI LIANGCAI

6) Family number: 72869092 (EP3427970A1)

© PatBase

Title: METHOD AND APPARATUS FOR PRODUCING A COATED SUBSTRATE, TOOL, COATED SUBSTRATE AND PACKAGE
PROCEDE ET DISPOSITIF DE FABRICATION D'UN SUBSTRAT REVETU, OUTIL, SUBSTRAT REVETU ET EMBALLAGE

Abstract: Source: EP3427970A1 [DE] Die Erfindung betrifft ein Verfahren zum Herstellen eines beschichteten Substrats (12). Das Verfahren umfasst zumindest die Schritte a) Bereitstellen des Substrats (12), b) Bereitstellen eines Beschichtungsmaterials (16) und c) Aufbringen eines Teilbereichs (22) des Beschichtungsmaterials (16) auf das Substrat (12), indem zumindest der aufzubringende Teilbereich (22) des Beschichtungsmaterials (16) mittels eines Materialuebertragungsbereichs (24) eines Werkzeugs (20) gegen das Substrat (12) gepresst und mittels eines Trennbereichs (26) des Werkzeugs (20) vom restlichen Beschichtungsmaterial (16) abgetrennt wird. Die Erfindung betrifft weiterhin eine Vorrichtung (10) zum Herstellen eines beschichteten Substrats (12), ein Werkzeug (20) zur Verwendung in einem solchen Verfahren bzw. mit einer solchen Vorrichtung (10), ein beschichtetes Substrat (12) sowie eine Verpackung. **Machine translation:** The invention relates to a method for producing a coated substrate (12). The method comprises at least the steps of: a) providing the substrate (12); b) providing a coating material (16) and c) applying a portion (22) of the coating material (16) on the substrate (12), to be applied by at least the portion (22) of the coating material (16) by means of a material transfer area (24) of a tool (20) is pressed against the substrate (12) and by means of a separation region (26) of the tool (20) from the rest of the coating material (16). The invention further relates to an apparatus (10) for producing a coated substrate (12), a tool (20) for use in such a method or by means of such a device (10), a coated substrate (12) and a packaging.

Classifications:

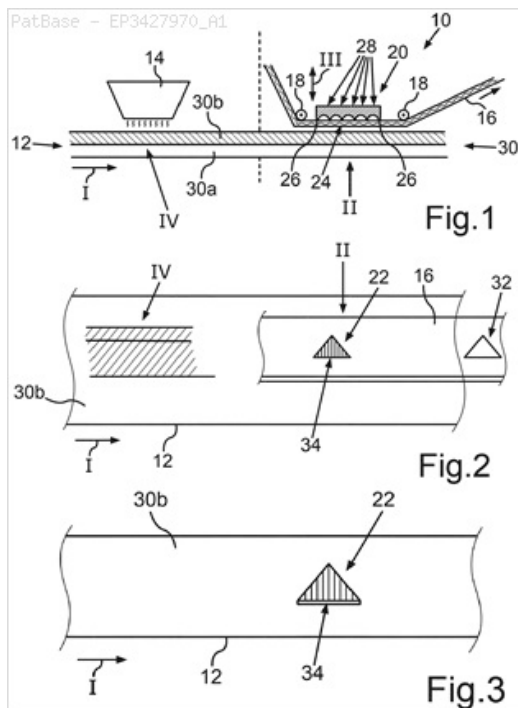
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B44C1/10 B44C1/17 B44C1/24 B65D65/42

B65D85/10 (Advanced/Invention)

CPC: B44C1/1729 B41F16/00 B41F19/00 B44B5/028 B44C1/24

B65D85/10 B65D2203/00



Family:

Publication number	Publication date	Application number	Application date
DE102017115804 A1	20190117	DE201710115804	20170713
EP3427970 A1	20190116	EP20180182272	20180706

Priority:

DE201710115804 20170713

Probable Assignee: MAYR MELNHOF KARTON AG

Assignee(s): (std): MAYR MELNHOF KARTON AG

Inventor(s): (std): VORENKAMP HARMAN

Agent(s): HOFSTETTER SCHURACK AND PARTNER

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

7) Family number: 43056175 (US2009078141A)

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Title: METHOD OF PERFORMING TRANSFER PRINTING ON SHEETS OF PAPER

Abstract: There is provided a method of performing transfer printing on sheets of papers capable of stopping a film from running while the film is kept apart from a cylinder and patterns of the film are not transferred onto the sheets, and of joining the film to the cylinder with the film and the cylinder matched in speed and phase at the resumption of running. While the cylinder is rotated at a specific speed, the film is on a first travel path and stopped from running. Before the film is moved from the first travel path to a second travel path to be joined to the cylinder, four steps are performed so that the running speed of the film is matched to the rotation speed of the cylinder, and the phase of marks provided on the film at equal intervals is matched to the phase of a gripper of the cylinder.

Classifications:

International (IPC 8-9): B41F16/00 B41F19/06 B41F23/08 B41F33/06 B41F33/14 B41F7/02 B41M3/12 (Advanced/Invention);

B41F16/00 B41F19/00 B41F23/00 B41F33/04 B41F33/14 B41F7/00

B41M3/12 (Core/Invention)

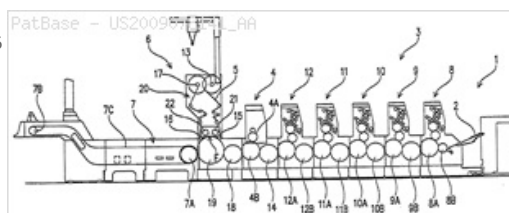
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European: B41F16/00 B41F19/00

US: 101/492

JP F-Term: 2C034 2C034/AA12 2C034/AA42 2C034/AB01 2C034/AB10 2C034/AE21 2C034/AE36 2C036 2C250 2C250/EA34 2C250/EB24 2H113 2H113/AA01 2H113/BA22 2H113/BA24 2H113/FA46 2H113/FA52 2H113/FA55

JP F-Index: B41F16/00/Z B41F33/00/290 B41F33/06/S B41F33/14/K B41F7/02/Z B41F7/02/414 B41M3/12



Family:

Publication number	Publication date	Application number	Application date
CN101391512 A	20090325	CN200810161213	20080918
CN101391512 B	20120104	CN200810161213	20080918
DE102008042189 A1	20090402	DE200810042189	20080918
JP2009073017 A2	20090409	JP20070243810	20070920
JP5080916 B2	20121121	JP20070243810	20070920
US2009078141 AA	20090326	US20080233255	20080918

Priority:

JP20070243810 20070920

Probable Assignee: RYOBI LTD

Assignee(s): (std): RYOBI LTD

Inventor(s): (std): NAKAMURA TAKAHIKO ; TAKAHIKO NAKAMURA ; TOSHIO YAMASHITA ; YAMASHITA TOSHIO

8) Family number: 43945200 (EP2113386A1)

© PatBase

Title: DEVICE FOR PUNCHING AND FINISHING

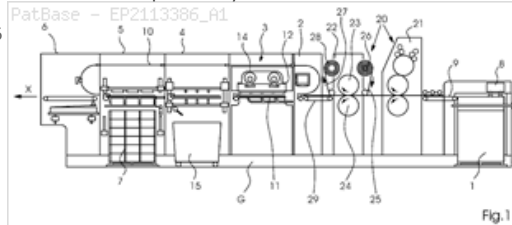
Abstract: The device has a finishing station (20) i.e. cold foil finishing module, a stamping station (3) i.e. flat bed stamping station, and a transport belt (9), a transport chain (10) and a transport device (29), which transport a printed sheet-like material through the finishing and stamping stations. The finishing station comprises a gluing tool (21) e.g. lacquer tool, for applying adhesive on the sheet-like material and a transfer tool (22) for transferring a finishing layer to the sheet-like material. The gluing tool and the transfer tool are switched-ON and switched-OFF independently.

Classifications:

International (IPC 8-9): B41F16/00 B41F19/00 B41F19/02 B41F19/06 B41F23/08 (Advanced/Invention)

CPC: B41F13/56 B41F16/00 B41F19/00 B41F23/08

European: B41F13/56 B41F16/00 B41F19/00 B41F23/08

**Family:**

Publication number	Publication date	Application number	Application date
DE102008021318 A1	20091105	DE200810021318	20080429
EP2113386 A1	20091104	EP20090100181	20090313

Priority:

DE200810021318 20080429

Probable Assignee: HEIDELBERGER DRUCKMASCH AG

Assignee(s): (std): HEIDELBERGER DRUCKMASCH AG

Assignee(s): HEIDELBERGER DRUCKMASCHINEN AG

Inventor(s): (std): COMPERA DR CHRISTIAN ; FRANK HENDRIK ; IMKAMP THOMAS ; COMPERA CHRISTIAN ; PALMEN DR PETER ; PALMEN PETER

Inventor(s): COMPERA DR ; PALMEN DR

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK TR

9) Family number: 62845228 (CN105729974A)

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Title: INTEGRATED METHOD FOR PRODUCING AND FORMING SUNSHINE STONE

Abstract: The invention discloses an integrated method for producing and forming sunshine stone. The integrated method comprises the following steps: mixing, drying, forming, printing and film covering, longitudinal trimming, transversal cutting and the like, so as to obtain the sunshine stone, and particularly comprises the following steps: raw materials are stirred in a stirring tank, the stirred mixture is dried in a drying tank, the dried mixture passes through a transversal charge pipe, a screen exchanger and a metering pump, and is finally extruded through a die nozzle, the extruded material is extruded by an upper roller, a middle roller and a lower roller, a UV ink printed PET film on a heat transfer film cylinder is fitted with the re-extruded material on the upper roller, then under the conveying of pulleys, the upper and lower surfaces of the re-extruded material are coated with films, and the film-coated material is cut with longitudinal cutters and transversal cutters, so as to obtain the sunshine stone. The integrated method has the advantages that the efficiency is high; the sunshine stone transparent boards of required lengths can be obtained via cutting; the thickness can be adjusted between 1 to 10 mm; the product quality is stable; less waste is generated; as an electric heating method is adopted, no pollution is generated in the production process, and the work efficiency is improved obviously.

Classifications:

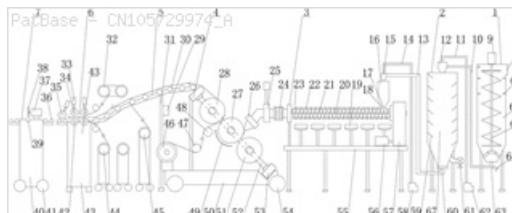
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B32B37/10 B32B38/00 B32B38/16 B32B43/00 B41F16/00

B41F19/00 (Advanced/Invention)

CPC: B32B37/08 B32B37/10 B32B38/0036 B32B38/164 B32B43/00

B41F16/00 B41F19/00 B29C48/30 B29C48/305

**Family:**

Publication number	Publication date	Application number	Application date
CN105729974 A	20160706	CN201610111978	20160229
CN105729974 B	20170718	CN201610111978	20160229

Priority:

CN201610111978 20160229

Probable Assignee: LINYI DAHAN DECORATION MAT CO LTD

Assignee(s): (std): LINYI DAHAN DECORATION MAT CO LTD

Assignee(s): LINYI DAHAN DECORATION MATERIALS CO ; LINYI KOREA DECORATION MATERIALS CO LTD

Inventor(s): (std): HAN KUIGUO ; HAN YU ; PENG LANHONG ; SUN JIANJUN

10) Family number: 70726232 (CN108382057A)

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Title: INTEGRATED PRINTING AND PROCESSING EQUIPMENT

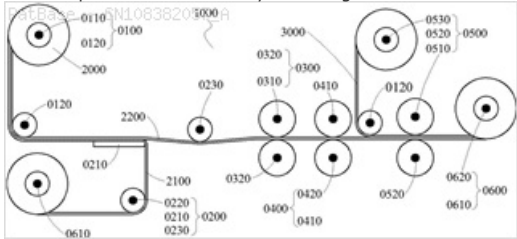
Abstract: The invention discloses integrated printing and processing equipment. The equipment comprises an input end, a membrane separating assembly, a hot stamping assembly, an indenting assembly and a rewinding assembly, wherein the input end is used for inputting multi-layer printed matter, the multilayer printed matter comprises backing paper and surface paper, the membrane separating assembly is used for separating the backing paper from the surface paper, the hot stamping assembly is used for realizing surface hot stamping on the separated surface paper, the indenting assembly is used for realizing indenting processing on the surface paper subjected to surface hot stamping, and the rewinding assembly is used for realizing rewinding of the backing paper and the surface paper. The integrated printing and processing equipment is used for realizing integrated membrane separating, gold stamping, indenting and rewinding of the printed matter, the automatic membrane separating capability can be achieved, the problem that the printing quality of the multi-layer printed matter is low can be solved, the automation degree is high, and the excellent production efficiency can be guaranteed.

Classifications:

International (IPC 8-9): B41F16/00 B41F19/00 B41F19/02

B41F19/06 (Advanced/Invention)

CPC: B41F16/00 B41F19/00 B41F19/02 B41F19/062 B41P2219/00



12) Family number: 44217237 (KR20100002992A)

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Title: TEXTILE FABRICS ROLLER FOR INKJET PRINTER

Abstract: PURPOSE: A textile fabric roller machine for an inkjet printer is provided to uniformly roll a fabric, and precisely control the tension of a thin fabric, such as chiffon or a mesh. CONSTITUTION: A textile fabric roller machine for an inkjet printer(100) comprises a main body(110), an operating unit, a rolling unit(130), a guide roller unit, a tension display unit(150), an expander unit. A worker can operate a driving control through the operating unit. The rolling unit is operated by a shift pulley. A load cell which senses the tension of a textile fabric(T) is attached on the guide roller unit. The tension display unit displays the tension measured by the load cell. The expander unit is installed in an entrance of an inspection unit, and flattens the textile fabric by controlling a wrinkle expansion angle and a contact angle with the textile fabric.

Classifications:

International (IPC 8-9): B41F16/00 B41F16/02 (Advanced/Invention);
B41F16/00 (Core/Invention)

CPC: B41F19/00 B41F16/00 B41F16/02 B41F19/007

**Family:**

Publication number	Publication date	Application number	Application date
KR101370629 B1	20140307	KR20080063061	20080630
KR20100002992 A	20100107	KR20080063061	20080630

Priority:

KR20080063061 20080630

Probable Assignee: KOREA IND TECH INST

Assignee(s): (std): KOREA IND TECH INST ; KOREA INST OF INDUSTRIAL TECHNOLOGY KITECH

Assignee(s): KOREA INSTITUTE OF INDUSTRIAL TECHNOLOGY ; KOREA INST OF INDUSTRIAL TECHNOLOGY

Inventor(s): (std): CHO YONG WOON ; PARK SOON YOUNG ; PARK YOON CHEOL

13) Family number: 44069275 (WO09150029A1)

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Title: DEVICE FOR COLD FOIL EMBOSING

Abstract: The aim of the invention is to develop the foil guiding process in a coating unit (2) for transferring image-forming layers from a transfer foil to a medium to be printed. To achieve this, the coating unit is equipped with a restricted-area pressing plate for transferring layers from the transfer foil. This allows the targeted control of the foil feed. The transfer foil is preferably guided past a pressing roll (3) approximately tangentially to said roll and with a restricted width. Special delivery devices (22, 33), which can operate cyclically, are provided for storing and delivering the foil.

Classifications:

International (IPC 8-9): B41F13/02 B41F16/00 B41F19/00 B41F19/06
B41F33/00 B41F33/06 B41F7/02 B41M5/03 (Advanced/Invention);
B41F19/00 (Core/Invention)

CPC: B41F13/08 B41F16/00 B41F19/00 B41F19/062 B41M1/24

B41M3/006 B41P2219/20 B41P2219/21 B41P2219/22 B41P2219/51

European: B41F13/08 B41F16/00 B41F19/00 B41F19/06B L41M1/24

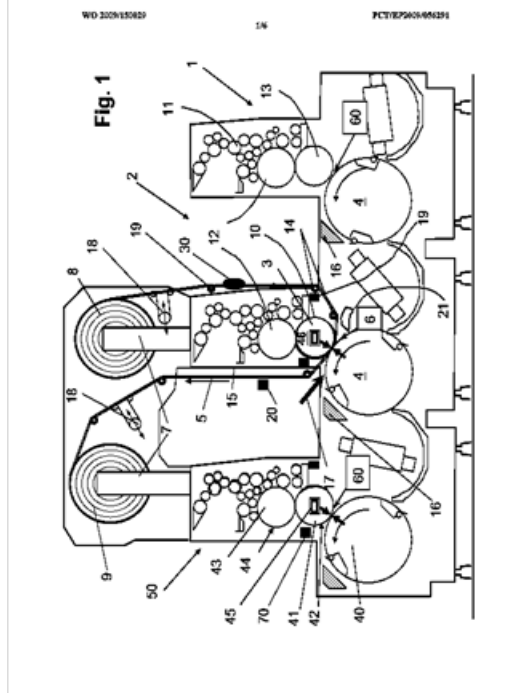
L41M3/00P L41P219/200 L41P219/210 L41P219/220 L41P219/510

JP F-Term: 2C034 2C034/AA12 2C034/AA42 2C036 2C250

2C250/EA21

JP F-Index: B41F16/00/J B41F19/06 B41F33/00/S B41F33/00/200

B41F7/02/Z B41F7/02/414 B41F7/06

**Family:**

Publication number	Publication date	Application number	Application date
CN102046382 A	20110504	CN200980120918	20090525
CN102046382 B	20130724	CN200980120918	20090525
DE102009026438 A1	20091203	DE200910026438	20090525
EP2296891 A1	20110323	EP20090761592	20090525
EP2296891 B1	20181017	EP20090761592	20090525
JP2011522719 T2	20110804	JP20110510969T	20090525
WO09150029 A1	20091217	WO2009EP56291	20090525

Priority:

DE200810002047 20080528 DE200910026438 20090525 WO2009EP56291 20090525

Probable Assignee: MANROLAND SHEETFED GMBH

Assignee(s): (std): MANROLAND AG ; MANROLAND SHEETFED GMBH ; PUESCHEL UWE ; RESCHKE GUIDO ; SCHOELZIG JUERGEN

Inventor(s): (std): GUIDO RESCHKE ; JUERGEN SCHOELZIG ; PUESCHEL UWE ; RESCHKE GUIDO ; SCHOELZIG JUERGEN ; UWE PUESCHEL

Agent(s): MANROLAND AG

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

14) Family number: 63639277 (US2018009214A)

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Title: PRECISION POSITIONING DEVICE OF A UNIT-TYPE DIE CUTTING AND HOT STAMPING MACHINE AND A WORKING METHOD THEREOF

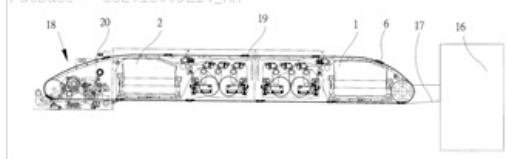
Abstract: A precision positioning device of a unit-type die cutting and hot stamping machine includes a positioning element on an input end of a first imprinting element and a positioning element on an output end of each imprinting element. Two neighboring positioning elements accomplish the positioning between the two positioning elements together. Each positioning element is constituted by a positioning assembly installed symmetrically on each end of the imprinting element. The positioning assembly includes a positioning rod which can rotate against an installation shaft. Each positioning rod includes a positioning block which is provided with a reference surface. A rear side of the gripper is provided with a reference matching surface. By the positioning elements, the accuracy in the art of die cutting and hot stamping can be assured when the machine is performing a multiple-working-position procedure.

Classifications:

International (IPC 8-9): B26D1/04 B26D5/24 B26D7/00 B26D7/01 B26D7/27 B26F1/44 B41F1/30 B41F16/00 B41F19/00 B41F19/02 B41F19/06 B41F21/04 B41F21/05 B41F21/08 B41F21/12 B41F21/14 B41G1/00 B65H5/02 (Advanced/Invention); B26D7/08 (Advanced/Non-invention)

CPC: B41F19/06 B41F21/12 B41F21/14 B41G1/00 B41F21/05 B41F16/00 B41F19/02 B41F16/0026 B41F1/30 B26D7/27 B26D5/24 B26F1/44 B26D1/045 B26D7/015 B26D7/0006 B26D2007/082 B26F2001/4463 B41F19/00 B65H5/028 B41F21/08 B26D7/01 B41F19/008 B41F19/068 B41P2219/42 B65H5/02 B41F21/04 B41F16/0046

PatBase - US2018009214_AA

**Family:**

Publication number	Publication date	Application number	Application date
CN105966058 A	20160928	CN201610529050	20160707
CN106183394 A	20161207	CN201610529416	20160707

CN107253625 A	20171017	CN201710511111	20170629
CN107284014 A	20171024	CN201710511123	20170629
CN107310257 A	20171103	CN201710512264	20170629
CN107416549 A	20171201	CN201710511124	20170629
CN207030518 U	20180223	CN201720770370U	20170629
CN207140546 U	20180327	CN201720770636U	20170629
CN207142372 U	20180327	CN201720770638U	20170629
CN207142373 U	20180327	CN201720776511U	20170629
US2018009214 AA	20180111	US20170643310	20170706
US2018009215 AA	20180111	US20170643325	20170706
WO18006810 A1	20180111	WO2017CN091787	20170705

Priority:

CN201610529050	20160707	CN201610529416	20160707	CN201710318788	20170508
CN201710318774	20170508	CN201710318477	20170508	CN201710318827	20170508
CN201710319095	20170508	CN201720505568U	20170508	CN201720507339U	20170508
CN201720504301U	20170508	CN201720505532U	20170508	CN201720504764U	20170508
CN201710511124	20170629	CN201720770638U	20170629		

Probable Assignee: LIU TIAN SHENG

Assignee(s): (std): LIU TIAN SHENG ; MASTERWORK MACHINERY CO LTD ; TIANJIN MASTERWORK TECH GROUP CO LTD ; TIANJIN CHANGRONG PRINTING EQUIPMENT LTD BY SHARE LTD ; TIANJIN MASTERWORK GROUP CO LTD

Assignee(s): TIANJIN MASTERWORK GROUP CO ; TIANJIN CHANGRONG PRINTING EQUIPMENT BY SHARE LTD LTD ; TIANJIN MASTERWORK TECHNOLOGY GROUP CO ; MASTERWORK MACHINERY CO ; EVERGREEN PRINTING EQUIPMENT CO LTD TIANJIN

Inventor(s): (std): LIU DONG ; MA JINGHU ; WEI SHU YUAN ; WEI SHUYUAN

Agent(s): BEIJING GLOBE LAW LAW FIRM

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JO JP KE KG KH KM KN KP KR KW KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

15) Family number: 57269330 (KR20140104928A)

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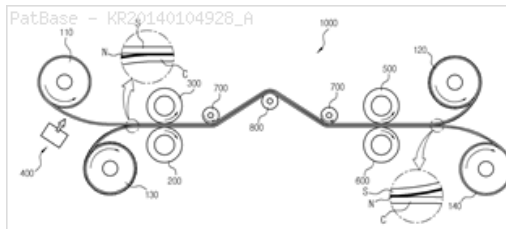
Title: APPARATUS FOR TRANSFER PROCESS OF LARGE AREA NANOSCALE THIN FILMS

Abstract: The present invention relates to an apparatus for transferring large area nano thin films for adhering and transferring a nano thin film laminated on a top surface of a carrier film, on a substrate disposed at an upper side of the nano thin films, including a first pressing roller making contact with a lower side of the carrier film to horizontally move the carrier film; a second pressing roller making contact with an upper side of the substrate to horizontally move the substrate, and adhering and transferred to a nano thin film laminated on a top surface of the carrier film; and a dielectric barrier discharge reactor performing plasma process on the substrate to increase an adhesive force between the substrate and the nano thin film by increasing the surface energy of the substrate.

Classifications:

International (IPC 8-9): B41F16/00 B41F17/14 (Advanced/Invention)

CPC: B41F17/14 B41F16/00 B41F19/00 B41F19/004



Family:

Publication number	Publication date	Application number	Application date
KR101527715 B1	20150611	KR20140020602	20140221
KR20140104928 A	20140829	KR20140020602	20140221

Priority:

KR20130018845 20130221

Probable Assignee: KOREA MACH AND MATERIALS INST

Assignee(s): (std): KOREA MACH AND MATERIALS INST

Assignee(s): KOREA INST OF MACHINERY AND MATERIALS ; KOREA INSTITUTE OF MACHINERY AND MATERIALS

Inventor(s): (std): HUR MIN ; JO KYUNG MIN ; KANG WOO SEOK ; KIM JAE HYUN ; KIM KWANG SEOP ; LEE DAE HOON ; LEE HAK JOO

16) Family number: 41940342 (US2010006234A)

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Title: MODULAR FILM UNIT

Abstract: In order to transfer an image-type coating from a carrier film to a printed sheet, an image-type adhesive is applied to the printed sheet. In a film transfer module (2), the carrier film comprising the image-type coating is rolled over the printed sheet using contact pressure such that the coating adheres to the adhesive sections, thus forming an image. In order to improve the function, simplify the device and increase flexibility, a modular holder for film rolls of the transfer foil (5) is provided, allowing simplified handling.

Classifications:

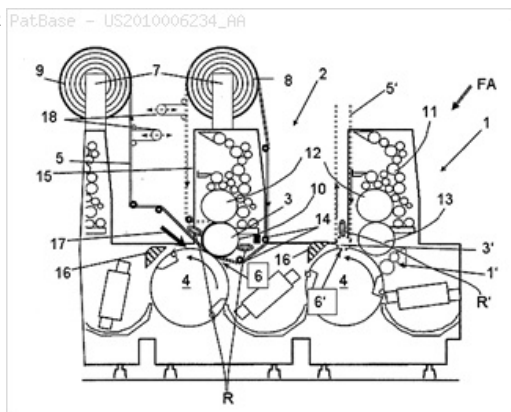
International (IPC 8-9): B41F16/00 B41F19/00 B41F19/06

B65H19/18 B65H37/04 (Advanced/Invention);

B41F16/00 B41F19/00 B65H19/18 B65H37/04 (Core/Invention)

CPC: B41F16/00 B41F19/00 Y10T156/1705 B41F19/062 B41P2219/00

B41P2219/20 B41P2219/50 B41P2219/51 B41P2219/60 B65H19/1852
 B65H23/1888 B65H2301/41398 B65H2301/46018 B65H2301/5111
 B65H2301/5114 B65H2220/01 B65H2220/03
European: B41F16/00 B41F19/00 B41F19/06B B65H19/18D4
 B65H23/1888B L41P219/00 L41P219/200 L41P219/500 L41P219/510
 L41P219/600 L65H301/41398 L65H301/46018 L65H301/5111
 L65H301/5114
US: 156/540
JP F-Term: 2C036
JP F-Index: B41F16/00/Z B41F19/00 B41F19/06



Family:

Publication number	Publication date	Application number	Application date
AT479545 E	20100915	AT20070856686T	20071213
CN101563228 A	20091021	CN200780047254	20071213
CN101563228 B	20130814	CN200780047254	20071213
DE102007060028 A1	20080626	DE200710060028	20071213
DE502007004967 D1	20101014	DE200750004967T	20071213
DK2104614 T3	20110103	DK20070856686T	20071213
EP2104614 A2	20090930	EP20070856686	20071213
EP2104614 B1	20100901	EP20070856686	20071213
JP2010513075 T2	20100430	JP20090541850T	20071213
US2010006234 AA	20100114	US20070519696	20071213
WO08077496 A2	20080703	WO2007EP10940	20071213
WO08077496 A3	20090205	WO2007EP10940	20071213

Priority:

DE200610060243 20061220 DE200710060028 20071213 WO2007EP10940 20071213

Probable Assignee: MANROLAND AG

Assignee(s): (std): MAC ROLAND DRUCKMASCHINEN AG ; MANROLAND AG ; PREISNER MARIO ; ROLAND MAN DRUCKMASCH

Assignee(s): MAN ROLAND DRUCKMASCHINEN AG

Inventor(s): (std): MARIO PREISNER ; PREISNER MARIO

Agent(s): LEYDIG VOIT AND MAYER LTD; STAHL DIETMAR

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

17) Family number: 46417376 (WO10086265A1)

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Title: SHEET-FED PRINTING PRESS

Abstract: The aim of the invention is to improve the transfer process in a unit for transferring cold film in a printing press. Said aim is achieved by disposing at least one inkjet printing device (30) upstream of the feeding unit (2) in the direction of travel of the sheets to be printed in order to apply the adhesive for transferring the film.

Classifications:

International (IPC 8-9): B41F16/00 B41F19/00 B41F19/02

B41M1/22 (Advanced/Invention);

B41F16/00 B41F19/00 B41M1/00 (Core/Invention)

CPC: B41F16/00 B41F19/00 B41F19/02

European: B41F16/00 B41F19/00 B41F19/02

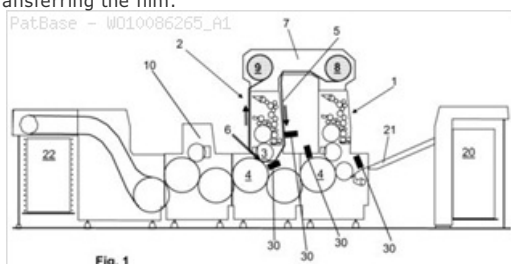


Fig. 1

Family:

Publication number	Publication date	Application number	Application date
DE102009007002 A1	20100805	DE200910007002	20090130
WO10086265 A1	20100805	WO2010EP50621	20100120

Priority:

DE200910007002 20090130

Probable Assignee: MANROLAND AG

Assignee(s): (std): GEBHARDT RAINER ; LIPPOLD ANDREAS ; MANROLAND AG ; NAEGELE RUDOLF ; WEISS ROBERT ; STAHL DIETMAR ; TENFELDE JOHANNES ; SCHULMEISTER PETER

Inventor(s): (std): GEBHARDT RAINER ; LIPPOLD ANDREAS ; SCHULMEISTER PETER ; STAHL DIETMAR ; WEISS ROBERT ; TENFELDE JOHANNES ; NAEGELE RUDOLF

Agent(s): MANROLAND AG

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL

18) Family number: 60740415 (KR20150126083A)

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Title: PRINTING METHOD FOR PRINT OF MESH FABRIC

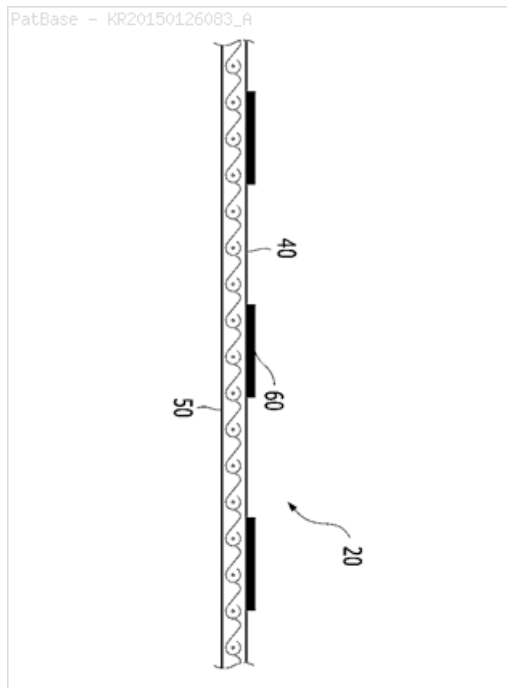
Abstract: The present invention relates to a silicon printer in which a fabric is attached in a band shape in an upper surface of a conveyor belt driving at an unlimited orbit, is silicon printed in a screen print unit, is dried in a drying unit in succession, and is emitted to the outside. The present invention relates to a method for manufacturing mesh fabric printing which enables a mesh fabric (20) to have silicon printing at an accurate position without being shaken in a screen print unit (5) by firmly attaching the mesh fabric (20) having a mesh of 70-180 denier to an adhesive member (7) on a conveyor belt (2), thereby intermittently driving the same without flow.

Classifications:

International (IPC 8-9): B41F19/00 B41M3/06

D06C23/04 (Advanced/Invention)

CPC: B41F19/00 B41F16/00 B41M3/06 D06C23/04



Family:

Publication number	Publication date	Application number	Application date
KR20150126083 A	20151111	KR20140053051	20140501

Priority:

KR20140053051 20140501

Probable Assignee: KIM SEONG SU

Assignee(s): (std): KIM SEONG SU ; KIM SUNG SOO

Inventor(s): (std): KIM SUNG SOO

19) Family number: 745422 (GB1294997A)

© PatBase

Title: 3, for simultaneously heat trans- fering material to embossing and cutting a workpiece to form a label contains heating units and comprises an operative face 20, Figs.

Abstract: 1294997 Embossing A APICELLA 28 May 1971 18103/71 Heading B6J A die 1, Fig. 3, for simultaneously heat transferring material to embossing and cutting a workpiece to form a label contains heating units and comprises an operative face 20, Figs. 1 and 7A, having raised therefrom a portion containing a secured design positioned between an outer cutting edge 22 and a less raised inner edge 23, and may also have a further secured design 21. In another form, Fig. 3A, the design 27, is secured into the face 20. In another form, Fig. 11, the design is on a portion raised from a plane extending from a cut-away portion 34 of the operative face. The die may be secured to the stationary bed 3 of a block machine, Fig. 1, and co-operate with a platen 4 mounted on a piston 5 reciprocated by a crank or other mechanism. The workpiece is a web 10 of paper or thin metal foil supported on a flexible rubber or other web 6, which webs are fed over the platen. A transfer web 13 comprising a flexible substrate 24, Fig. 11, and a foil layer 25, is fed from a spool 14 between the die and the web 10 and at angle, e.g. 90 degrees, to the feed of the latter. When the members 3, 4 are pressed together, the secured designs on the die produce releif designs on the web 10, Fig. 6A, while the outer edge 22 cuts the labels 8 out of the web 10 without cutting the web 13. The waste web 10 is rolled on to a spool 12. The web may be printed before embossing by printing-members 15. If a mating die 32, Fig. 11, is provided, or if the web 10 is multilayered, the web 6 can be omitted. Alternatively, the die may be mounted on a roller 47, between which and an impression roller 49 are fed a flexible support web 48, a web 40 previously printed on by a rotary multi-colour printing-machine 42, 43, 44 and comutating the workpiece, and a transfer web 45, the waste webs 40, 45 being rolled on to spools 51, 50.

Classifications:

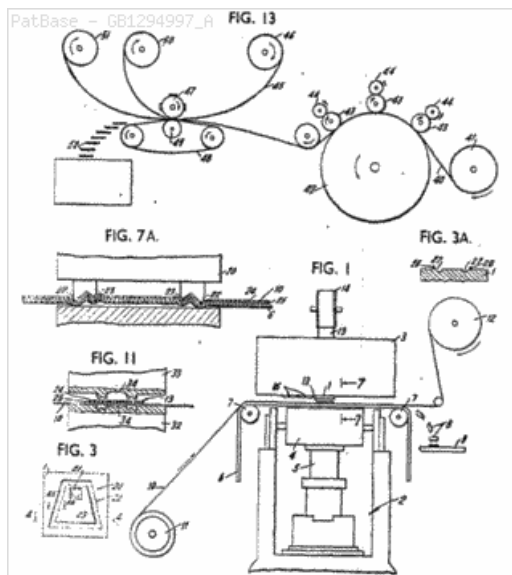
International (IPC 8-9): B26F3/06 B41F16/00 B41F19/00

B44B5/00 (Advanced/Invention)

International (IPC 1-7): B44B5/00

CPC: B26F3/06 B41F16/00 B41F19/00 B44B5/0071

European: B26F3/06 B41F16/00 B41F19/00 B44B5/00E



Family:

Publication number	Publication date	Application number	Application date
GB1294997 A	19721101	GB19710018103	19710528

Priority:

GB19710018103 19710528

20) Family number: 44547438 (KR200433051Y)

© PatBase

Title: THE FILM WINDER EQUIPMENT OF DECALCOMANIA PRINTING

Abstract: Source: KR200433051Y

Machine translation: The idea which it sees as regarding the film volume [chwi] system of the warrior printer, the drive department which is arranged on the table top where the conveyor which transfers the blood printed matter is established and the minute description drive department ascent and descent (ascent and descent) the cylinder which makes, the film supply department which supplies the warrior film and film volume [chwi] department and in the drive bringing up for discussion rear which it blows from there is to a thing which becomes accomplished with all the member control department and, minute description film volume [chwi] it arranges, in order to become the desorption in the carrier which it comes to build in table cutting in two and the minute description carrier when it is combined, from a sliced raw fish war potential the roller which inserts the [ci] tube () which winds the film and the minute description roller it is connected with once and it provides In the motor and the minute description [ci] tube the film it will receive the signal of location confirmation of the operational department and minute description blood printed matter which stands still the drive of the motor which rotated the cold hazard roller and the sensor which inspects a speed of travel a power source in the control department which it intercepts and minute description operation department and the sensor in the motor supply and control it will call it has all the fact that with feature. It follows in the idea which it sees and the warrior is completed in the blood printed matter the frequency film where it does not peel off not to be, it moves with the blood printed matter together during schedule time there to be a possibility if polyvalence governed by volume the change where very it stands still the composition which is simple is volume the major diameter of the frequency film which becomes larger gets and volume of always taking the frequency film stably, the direct volume withdrawal structure is very there is a possibility volume of taking the warrior film of meet (wide width) effectively is the idea which is useful. Warrior, printer and film, volume [chwi]

Classifications:

International (IPC 8-9): B41F15/08 B41F16/00 (Advanced/Invention);
B41F15/08 B41F16/00 (Advanced/Non-invention);
B41F15/08 B41F16/00 (Core/Invention)
CPC: B41F16/00 B41F15/08 B41F19/00

Family:

Publication number	Publication date	Application number	Application date
KR200433051 Y1	20061207	KR20060025980U	20060926

Priority:

KR20060025980U 20060926

21) Family number: 51088475 (US2012118184A)

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Title: FOIL TRANSFER DEVICE HAVING A VARIABLE GUIDE SYSTEM

Abstract: A transfer device for transferring a transfer layer to a printing material includes a transfer module disposed above a basic module. A guide system provides a way of easily and safely moving the transfer module within the foil transfer device or to a further foil transfer device in the same pressroom. The guide system includes tracks that are connected to the transfer module through rollers of a guide frame.

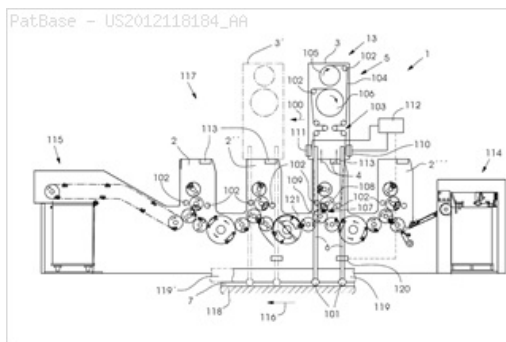
Classifications:

International (IPC 8-9): B05C1/02 B05C1/08 B41F16/00 B41F19/00
B41F19/02 B41F19/06 B41F23/08 B41F7/02 B41F7/06 B65C5/02
B65C9/30 B65H23/10 (Advanced/Invention);
B65C9/20 (Advanced/Non-invention)
CPC: B41F16/00 B41F19/00 B41F19/02 B41F19/06 B41P2219/51
European: B41F16/00 B41F19/00 B41F19/02 B41F19/06B

L41P219/510

US: 101/217

JP F-Term: 2C020 2C034 2C034/AA12 2C034/AA42 2C036 3E095 3E095/AA06 3E095/AA20 3E095/BA10 3E095/CA10 3E095/DA03 3E095/DA34 3E095/DA42 3E095/DA52 3E095/DA58 3E095/EA24 3E095/EA26 3E095/EA33 3E095/EA36 3E095/EA08 3E095/FA13 3E095/FA16 3F104 3F104/AA05 3F104/DA26 3F104/DA29
JP F-Index: B41F16/00/Z B41F19/00 B41F19/06 B41F23/08 B41F7/02/Z B41F7/02/414 B41F7/06 B65C5/02 B65C9/20 B65C9/30 B65H23/10



Family:

Publication number	Publication date	Application number	Application date
CN102555431 A	20120711	CN201110314742	20111011
CN102555431 B	20150408	CN201110314742	20111011
DE102010051238 A1	20120531	DE201010051238	20101112
DE502011000772 D1	20130718	DE201150000772T	20111014
EP2452817 A1	20120516	EP20110185174	20111014
EP2452817 B1	20130522	EP20110185174	20111014
JP2012101545 A2	20120531	JP20110247792	20111111
JP5882028 B2	20160309	JP20110247792	20111111
US2012118184 AA	20120517	US20110295269	20111114

Priority:

DE201010051238 20101112 EP20110185174 20111014

Probable Assignee: HEIDELBERGER DRUCKMASCHINEN AG

Assignee(s): (std): HEIDELBERGER DRUCKMASCH AG ; HEIDERBERGER DRUCKMASCHINEN AG ; SONNENSCHNITZ JOACHIM ; WEBER ALEXANDER

Assignee(s): HEIDELBERGER DRUCKMASCHINEN AG ; HEIDELBERGER DRUCKMASCHINEN AKTIENGESELLSCHAFT

Inventor(s): (std): SONNENSCHNITZ JOACHIM ; WEBER ALEXANDER ; ALEXANDER WEBER ; JOACHIM SONNENSCHNITZ

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

22) Family number: 46784542 (EP2226181B1)

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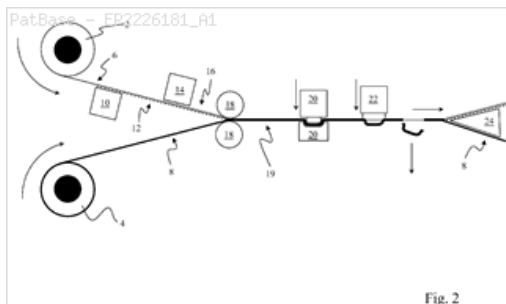
Title: METHOD AND DEVICE FOR PRINTING AND PROCESSING A PLASTIC FILM SHEET PROCEDE ET DISPOSITIF D'IMPRESSION ET DE TRAITEMENT D'UNE BANDE DE FEUILLE EN PLASTIQUE

Abstract: The method involves providing a carrier film (8), and providing a covering film (6), where the carrier and covering films are made from plastic e.g. polyethylene, polypropylene and polystyrene. An adhesion agent (12) is applied on a rear side of one of the films, and the carrier film and the covering film are joined to a composite film. The composite film are deep-drawn for forming an end product, and the end product is punched-out from the composite film in such a manner that a punch scrap is formed, where the punch scrap is separated into portions of the carrier and covering films. An independent claim is also included for a device for printing a plastic film sheet.

Classifications:

International (IPC 8-9): B29C51/02 B29C51/08 B29C51/14 B29C51/16 B29C51/42 B29K105/26 B41F16/00 B41F19/00 B41M1/30 (Advanced/Invention); B29K105/26 (Advanced/Non-invention); B29C51/00 B29C51/14 B41F19/00 (Core/Invention)
CPC: B29C2795/002 B29C51/082 B29C51/02 B29C51/14 B29C51/421 B29K2105/26 B29K2995/0026 B41F16/00 B41F19/00 B41M1/30

European: B29C51/02 B29C51/08B B41F16/00 B41F19/00 L29C51/14 L29C51/42B L29K105/26 L29K995/00E6 L41M1/30



Family:

Publication number	Publication date	Application number	Application date
DE102009011543 A1	20100909	DE200910011543	20090303
DE502010011309 D1	20160512	DE201050011309T	20100301
EP2226181 A1	20100908	EP20100154985	20100301
EP2226181 B1	20160330	EP20100154985	20100301

Priority:

DE200910011543 20090303 EP20100154985 20100301

Probable Assignee: BORGARDT BERNHARD J

Assignee(s): (std): BORGARDT BERNHARD J

Inventor(s): (std): BORGARDT BERNHARD J

Agent(s): BECKER KURIG STRAUS

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Title: PLATE TYPE PRESS

Abstract: Source: KR200383203Y **Machine translation:** This edition of the prize was formed by the heater plate and foil champion by heating the water pressure in the Edition about the Warrior, is formed by the corner of the tub laminar ball (110) is being formed, a guide to wealth Edition main frame formed by shearing (100); Above the main frame (100) on the upper part of the heater plate formed laminar (200); Above the heater plate (200) on the upper part of the separation, and above the horizontal length of the heater plate (200) relative to the horizontal length is longer being formed, above the heater plate moves a fixed heater combined with (200) Edition (300); Above the bottom part of the main frame (100) being formed, above the main frame (100) combined with the horizontal one-tailed sheep of the vertical plate (410) and, as mentioned above, coupled with a vertical plate (410) main frame (100) and above of the form and call the space between combined in the heart of the ball (421) was formed by the horizontal plate (420) consisting of a fixed frame (400); The above fixed frame (400) are formed, in part, in the heart of the I formation, and the punters (510) (510) on both sides of the above or punters guide ball (520) formed an auxiliary frame (500); The above form part of the secondary frame (500), and the aforementioned auxiliary frame (500) 's Guide to ball (520) through the above horizontal plate (420) combined with vertical boards (610) and, as mentioned above, coupled with the acceptance of the vertical plate (610), and combined with the ball in the center of the formation of wealth (621) was formed by the horizontal plate (620) and, if the acid is formed and the external screw part will be accommodated at the top of the acceptance of the above, the above is a combination of a fixed frame (400) ball (421), combined with the aforementioned auxiliary frame (500), or through the bottom of the punters (510) is a combination of the above horizontal plate (620) (621) and unscrew the rod is joined at (630) was formed by screw Rod frame (600); The above screw rods are formed in the lower part of the frame (600), the aforementioned screw rods (630) combined to control the motor direction of rotation directly with (700) and; The above move Edition (300) and the heater above the secondary frame (500) is fixed above combined with the main frame (100) of the ball (110) going through the rotation of the screw rod (630) above, depending on the direction of the aforementioned auxiliary frame (500), the aforementioned heater Mobile Edition (300), the aforementioned heater plate (200) and at the same time, the ascent was formed so that the Guide rods (800); consists of above, including but not limited to the heater plate is located in the upper part of the main frame above by the foil and pigeon and things being pressurized, heated Edition featuring both the Warrior machine technical. According to this, the power transmission consists of a behavior reliable, direct heater plates reduce the economic power is delivered and picked rejects and secure benefits. The warrior with the screw Rod motor heaters Guide

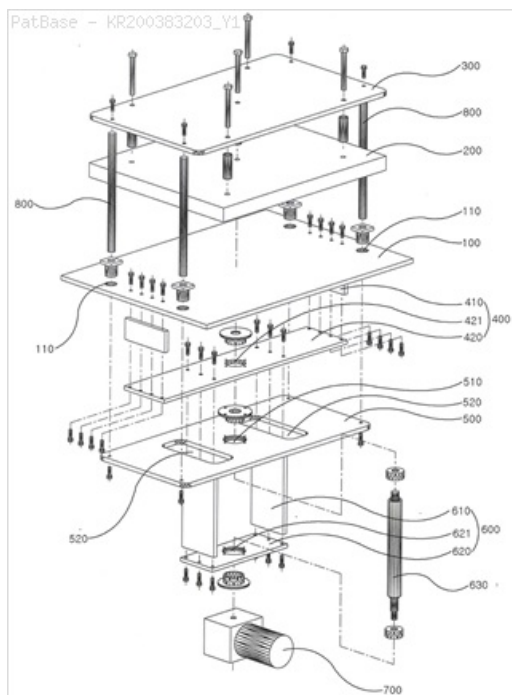
Classifications:

International (IPC 8-9): B41F16/00 B41F16/02 (Advanced/Invention);

B41F16/00 B41F16/02 (Advanced/Non-invention)

International (IPC 1-7): B41F16/00 B41F16/02

CPC: B41F16/00 B41F16/02 B41F19/00



Family:

Publication number	Publication date	Application number	Application date
KR200383203 Y1	20050503	KR20050003281U	20050203

Priority:

KR20050003281U 20050203

Probable Assignee:

KIM SEONG HUN

Assignee(s): (std):

KIM SEONG HUN

Title: SHEET PRINTING MACHINE I.E. SHEET-FED OFFSET PRINT MACHINE, HAS PRINTING UNIT AND/OR PAINTING UNIT PROVIDED WITH DEVICE FOR MEASURING CONTACT PRESSURE OF CYLINDERS AT ATTACHED PNEUMATIC CYLINDERS IN CONTACT ZONE

Abstract: The machine has a foil unit (2) equipped with a set of pneumatic cylinders (23, 33, 43), and a set of cylinders (22, 32, 42) attached to the set of pneumatic cylinders. A rubber cloth or a lacquer form (421) is attached to a lateral surface of the cylinders. An adjusting device adjusts contact pressure of the rubber cloth or the lacquer form at the pneumatic cylinders. A printing unit (3) and/or a painting unit (4) exhibit a device for measuring the contact pressure of the cylinders at the attached pneumatic cylinders in a contact zone. An independent claim is also included for a method for transferring an image from a transfer foil to a printed sheet with a sheet printing machine.

Classifications:

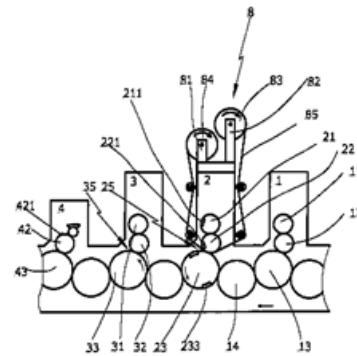
International (IPC 8-9): B41F16/00 B41F33/08

B44C1/17 (Advanced/Invention);

B41F16/00 B41F33/04 B44C1/17 (Core/Invention)

CPC: B41F16/00 B41F19/00 B41F33/0072

European: B41F16/00 B41F19/00 B41F33/00G



Figur 1

10/13

Family:

Publication number	Publication date	Application number	Application date
DE102008045430 A1	20100304	DE200810045430	20080902

Priority:

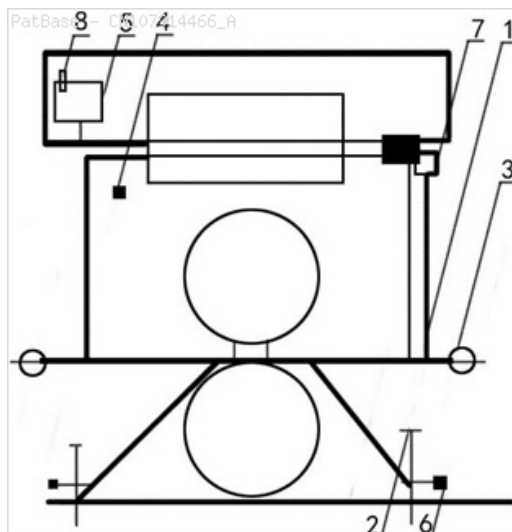
DE200810045430 20080902

Probable Assignee: KOENIG AND BAUER AG**Assignee(s):** (std): KOENIG AND BAUER AG**Assignee(s):** KOENIG AND BAUER AKTIENGESellschaft**Inventor(s):** (std): HEFTLER VICTOR ; ZIEGENBALG CHRISTIAN**25) Family number: 69284881** (CN107914466A)

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Title: PLATE WORK INDENTATION PREVENTION AND DEFORMATION CONTROL DEVICE OF STAMPING MACHINE

Abstract: A plate work indentation prevention and deformation control device of a stamping machine comprises a machine body (1) which is provided with a border signal module (2), horizontal sensing modules (3), a remote communication module (4) and a management module (5); during operation, the border signal module (2) is arranged on a printing station for indicating a material border, and the horizontal sensing modules (3) are arranged on the both sides of rockers; the sensed information is transmitted to the management module (5) through the remote communication module (4) for processing; the border signal module (2) is provided with a sensing signal module (6) for sensing the contact conditions between plates and borders in real time; each horizontal sensing module (3) is provided with a pressure limiting module (7) for limiting pressure when the sensed rockers are not on the same line; the management module (5) is provided with a prompt module (8); and by controlling the strength of the rockers and the dimensions of the borders, the operation effect is avoided, so that the work is smooth.

Classifications:**International (IPC 8-9):** B41F16/00 B41F19/00 B41F33/00 (Advanced/Invention)**CPC:** B41F33/00 B41F16/00 B41F19/00**Family:**

Publication number	Publication date	Application number	Application date
CN107914466 A	20180417	CN201711268502	20171205

Priority:

CN201711268502 20171205

Probable Assignee: XINCHANG COUNTY KANGHONG MACHINERY TECH CO LTD**Assignee(s):** (std): XINCHANG COUNTY KANGHONG MACHINERY TECH CO LTD**Assignee(s):** XINCHANG COUNTY KANGHONG MACHINERY TECHNOLOGY CO ; XINCHANG KANG HONG MACHINERY CO LTD**Inventor(s):** (std): ZHANG JINRONG**26) Family number: 66595964** (CN107031179A)

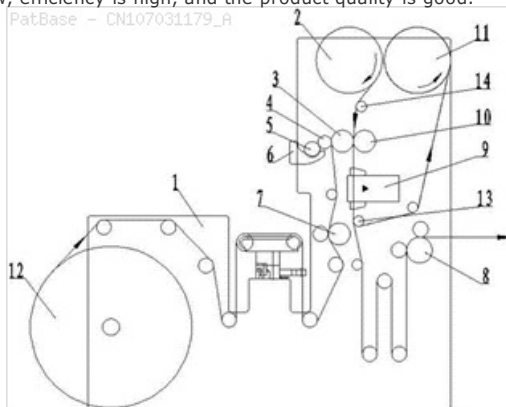
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Title: MULTIFUNCTIONAL INTEGRATED FEEDING MACHINE FOR INTERMITTENT ROTARY PRESS

Abstract: A multifunctional integrated feeding machine for an intermittent rotary press comprises a main wall plate, a printing material feeding shaft, an attaching material feeding shaft, a printing mechanism, an attaching mechanism, a drying mechanism and a waste collecting shaft. All the mechanisms are mounted on the main wall plate according to the printing sequence, and the main wall body is provided with a plurality of guiding rollers and conveying rollers; the attaching material feeding shaft and the waste collecting shaft are horizontally mounted on the upper portion of the main wall body; the printing mechanism and the attaching mechanism jointly use an active roller; the printing mechanism, the attaching mechanism and the active roller are horizontally arranged below the attaching material feeding shaft; the drying mechanism is arranged below the active roller and an attaching roller; and a guiding stripping roller and a printing feeding roller are arranged below the drying mechanism. The feeding machine is simple in structure and high in controllability, printing, attaching and cold scalding are integrated, the printing working procedures of solely printing, printing and attaching integration and printing and cold scalding integration can be achieved through one unit, cost is low, efficiency is high, and the product quality is good.

Classifications:

International (IPC 8-9): B32B37/10 B32B37/12 B32B38/16
B41F16/00 B41F19/00 B65H20/02 B65H23/26 (Advanced/Invention)
CPC: B41F16/00 B32B37/10 B32B37/12 B32B38/164 B41F19/004
B65H20/02 B65H23/26 B65H2701/1133 B65H2801/03 B41F19/00

**Family:**

Publication number	Publication date	Application number	Application date
CN107031179 A	20170811	CN201710310628	20170505

Priority:

CN201710310628 20170505

Probable Assignee: HEBEI WANJIE MACHINERY TECH CO LTD**Assignee(s):** (std): HEBEI WANJIE MACHINERY TECH CO LTD**Assignee(s):** HEBEI WANJIE MACHINERY TECHNOLOGY CO**Inventor(s):** (std): HU YONGJIE ; NI JIANYU ; WANG YONGGE**27) Family number: 49940999** (WO11141359A1)

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Title: FILM STORE IN A COLD-FILM EMBOSsing APPARATUS

Abstract: The intention is to extend the practical use of the film feeding in a coating module for transferring image-forming layers from a transfer film onto a printing material. For this purpose, a delimited pressing surface area is arranged in the coating module for transferring layers from the transfer film. It is thus possible for the film advancement to be controlled in a specific manner. This involves guiding the transfer film preferably with limited width and approximately tangentially past a pressing roller. Special conveying arrangements that can be operated in a cyclical manner are provided for film-storing and film conveying purposes, wherein the conveying arrangements are designed as film stores 27.1, 27.2, 28.1, 28.2, 32.1 and 32.2 on the entry side and the exit side in relation to the transfer gap 6 and can be aligned relative to one another.

Classifications:

International (IPC 8-9): B41F16/00 B41F19/00
B41F19/06 (Advanced/Invention)
CPC: B41F16/00 B41F19/00 B41F19/062 B41P2219/22
European: B41F16/00 B41F19/00 B41F19/06B L41P219/220

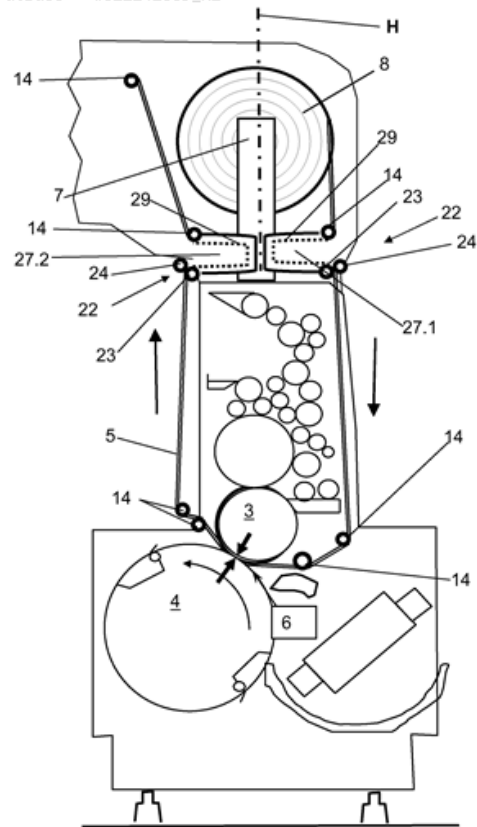


Fig. 2

Family:

Publication number	Publication date	Application number	Application date
DE102010028836 A1	20111117	DE201010028836	20100511
WO11141359 A1	20111117	WO2011EP57262	20110506

Priority:

DE201010028836 20100511

Probable Assignee: MANROLAND AG**Assignee(s):** (std): MANROLAND AG ; RESCHKE GUIDO ; SCHOELZIG JUERGEN**Inventor(s):** (std): RESCHKE GUIDO ; SCHOELZIG JUERGEN ; RESCHKE GUIDO DIPL ING ; SCHOELZIG JUERGEN DIPL ING**Agent(s):** MANROLAND AG

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW