

**CPC****COOPERATIVE PATENT CLASSIFICATION****B41L****APPARATUS OR DEVICES FOR MANIFOLDING, DUPLICATING, OR PRINTING FOR OFFICE OR OTHER COMMERCIAL PURPOSES; ADDRESSING MACHINES OR LIKE SERIES-PRINTING MACHINES**

(printing presses or machines for industrial purposes [B41F](#); stamps, stamping or numbering devices [B41K](#))

**NOTE**

This subclass does not cover constituent parts common to manifolding by means of pressure-sensitive layers or intermediaries, to apparatus or machines for duplicating or printing for office or other commercial purposes, or to addressing machines or like series-printing machines, which are covered by subclass [B41F](#).

In this subclass, as indicated by the references, groups [B41L 15/00](#) and [B41L 17/00](#) are intended to cover letterpress and lithographic printing apparatus only in so far as it is specially adapted for office or other commercial purposes; the general constructions or features of apparatus of these types are classified in subclass [B41F](#).

Constructions or features determining classification in these groups are, for example:  
ease of operation by clerical staff, cleanliness of operation  
in non-industrial environments, the use of printing surfaces  
constructed for the production of a limited number of copies.

In this subclass, the following terms are used with the meanings indicated:

- "manifolding" means the obtaining of several copies simultaneously by means of pressure-sensitive layers when making an original;
- "duplicating" means the obtaining of successive copies from a master, e.g. a hectographic image;
- "stencilling" involves the use of a printing surface which is perforated to form the image, the ink flowing through the perforations on the copy material.

**Guidance heading: Manifolding by means of pressure-sensitive layers or intermediaries**

- B41L 1/00**      **Devices for performing operations in connection with manifolding by means of pressure-sensitive layers or intermediaries, e.g. carbons; Accessories for manifolding purposes**
- B41L 1/02**      . Devices for preparatory operations, e.g. for bringing together sheets or webs and interposed carbons; Devices combined with devices for printing, for coating with carbon, for folding
- B41L 1/04**      . Devices for performing operations subsequent to manifolding, e.g. for separating single sheets or webs from single form sets, continuous manifold assemblies from carbons
- B41L 1/06**      . .      on single form sets
- B41L 1/08**      . .      on continuous manifold assemblies
- B41L 1/10**      . . .      Separate folding or disposition of single webs
- B41L 1/12**      . . .      Severing webs to obtain single sheets or forms, e.g. by cutting, by bursting
- B41L 1/14**      . . .      Severing edge perforations from webs
- B41L 1/16**      . Carriers or supply devices for pressure-sensitive material, e.g. for carbon sheets; Carbon gloves
- B41L 1/18**      . .      for carbon webs; Continuous carbon supply mechanisms
- B41L 1/20**      . Manifolding assemblies, e.g. book-like assemblies [(N: [Multi-copy labels G09F 3/0288](#))]
- B41L 1/22**      . .      made up of single sheets or forms
- B41L 1/24**      . . .      Pads or books
- B41L 1/26**      . .      Continuous assemblies made up of webs
- B41L 1/28**      . . .      in rolled or wound form
- B41L 1/30**      . . .      folded longitudinally
- B41L 1/32**      . . .      folded transversely
- B41L 1/321**      . . . .      {Stacks of sheets attached to a carrier strip or web}
- B41L 1/323**      . . . .      {Uniting several webs, e.g. transversely}
- B41L 1/325**      . . . . .      {longitudinally}
- B41L 1/326**      . . . .      {Severance lines; Perforations}
- B41L 1/328**      . . . .      {Removing carbon sheets}
- B41L 1/34**      . .      for making masters for hectographic duplicators
- B41L 1/36**      . .      with pressure-sensitive layers or coating other than carbon ([sheet materials B41M 5/00](#))
- B41L 3/00**      **Platens or like sheet supports for manifolding using pressure-sensitive layers or intermediaries, e.g. for book-keeping purposes**
- B41L 3/02**      . with stationary clamping means for holding the manifolding assembly in registered position, e.g. resilient clamps for holding non-perforated sheets {clamps for platens [B41F 1/36](#)}
- B41L 3/04**      . .      Bars provided with pins engaging perforations in the elements
- B41L 3/06**      . with movable clamping or guiding means for the elements of the manifolding assembly

- B41L 3/08 . with non-mechanical means for holding the elements in registered position, e.g. magnetic means
- B41L 3/10 . with means for moving assembled elements step by step relative to platen or support, e.g. for column or line selection; Means for locating assembled elements when stationary
- B41L 3/12 . Auxiliary devices
- B41L 3/14 . . . . Magazines or storage compartments, e.g. for slips
- B41L 3/16 . . . . Web-feeding arrangements
- B41L 3/18 . . . . Displaceable covers, e.g. with windows
- B41L 3/20 . . . . for facilitating manifolded in books
- B41L 3/22 . . . . Applications of ink ribbons; Holding, feeding, or guiding means therefor

**B41L 5/00** **Autographic registers or like manifolding apparatus using movable strips or webs**  
(movable strip writing or reading apparatus [B42D 19/00](#))

- B41L 5/02 . with means for limiting movements of webs fed by hand
- B41L 5/04 . with mechanisms for feeding webs or for arranging web feed; with web storage arrangements {(in genral [B65H](#))}
- B41L 5/06 . . . . by means of rollers, wheels, or chains, { e.g. with pins} transversely
- B41L 5/08 . . . . by reciprocating mechanisms
- B41L 5/10 . with mechanisms for feeding the pressure-sensitive web or webs separately from the other webs, e.g. transversely
- B41L 5/12 . with means for indicating exhaustion of web supply
- B41L 5/14 . with auxiliary means for printing, perforating, or severing the web
- B41L 5/16 . Accessories, e.g. drawers for storing forms, for money (cash registers [G07G](#))

**Guidance heading:** **Apparatus or machines for duplicating or printing for office or other commercial purposes**

**B41L 7/00** **Apparatus for directly duplicating from hectographic originals, i.e. for obtaining copies in mirror image**

- B41L 7/02 . by passing original and copy-sheet or -web between rollers
- B41L 7/04 . . . . with means for guiding original or copy-sheet or -web
- B41L 7/06 . . . . with means for severing copy-sheet or -web
- B41L 7/08 . . . . with means for moistening or drying

**B41L 9/00** **Apparatus for indirectly duplicating from hectographic originals by means of hectographic intermediaries or transfer surfaces, i.e. "dry duplicators"**

- B41L 9/02 . Containers for clay or gelatin
- B41L 9/04 . with flat supports over which gelatin-paper is stretched
- B41L 9/06 . . . . and with carriages for feeding the sheets
- B41L 9/08 . . . . and with devices for rolling-in and securing hectographic gelatin-paper webs
- B41L 9/10 . with rotary cylinders carrying sheets of hectographic gelatin-paper

<b>B41L 11/00</b>	<b>Apparatus for directly duplicating from hectographic masters in mirror image, i.e. "wet duplicators" for producing positive copies</b>
B41L 11/02	. with a flat support carrying the masters
B41L 11/04	. . and with carriages for feeding the sheets
B41L 11/06	. . for stack duplicating with pressure rollers
B41L 11/08	. with rotary cylinders carrying the masters
B41L 11/10	. with two rollers between which master is stretched
B41L 11/12	. Driving gear; Control thereof
B41L 11/14	. Constructional features of masters ( <a href="#">chemical aspects B41M</a> )
<b>B41L 13/00</b>	<b>Stencilling apparatus for office or other commercial use</b> ( <a href="#">screen printing B41F 15/00</a> ; <a href="#">stencils, stencil materials, carriers therefor B41N 1/24</a> )
B41L 13/02	. with flat stencil carriers
B41L 13/04	. with curved or rotary stencil carriers
B41L 13/06	. . with a single cylinder carrying the stencil
B41L 13/08	. . with stencil carried by two or more cylinders, e.g. through the intermediary of endless bands
B41L 13/10	. . . Clips or clamps for securing stencils to stencil carriers
B41L 13/12	. for special purposes, e.g. for reproducing Braille characters <a href="#">{(typewriters for Braille B41J 3/32)}</a>
B41L 13/14	. Attachments, e.g. for punching, cutting, severing
B41L 13/16	. Driving gear; Control thereof
B41L 13/18	. Inking units
<b>B41L 15/00</b>	<b>Letterpress printing apparatus specially adapted for office or other commercial purposes</b> ( <a href="#">in general B41E</a> ; <a href="#">printing plates or foils, materials thereof or B41N 1/00</a> )
B41L 15/02	. with flat printing surfaces, e.g. with flat type-beds, surfaces made of thin sheet material or moulded from plastics or rubber
B41L 15/04	. . of composed type locked in chases
B41L 15/06	. with curved printing surfaces, e.g. cylinders
B41L 15/08	. . with stereotypes
B41L 15/10	. for multicolour printing; for perfecting
B41L 15/12	. Driving gear; Control thereof
B41L 15/14	. Attachments, e.g. for punching, cutting, severing
<b>B41L 17/00</b>	<b>Lithographic printing apparatus for office or other commercial purposes</b> ( <a href="#">in general B41E</a> ; <a href="#">printing plates or foils, materials therefor B41N 1/00</a> )
B41L 17/02	. for direct impression printing
B41L 17/04	. . with flat printing surfaces
B41L 17/06	. . with curved printing surfaces, e.g. cylinders
B41L 17/08	. for offset printing
B41L 17/10	. . with flat printing surfaces, e.g. co-operating with travelling offset cylinders
B41L 17/12	. . with curved printing surfaces, e.g. forme cylinders

- B41L 17/14 . of two-cylinder type, e.g. co-operating forme and impression cylinders
- B41L 17/16 . of three-cylinder type
- B41L 17/18 . for multicolour printing, e.g. tandem machines; for perfecting
- B41L 17/20 . without damping means, e.g. using heat-activatable inks, refrigerated printing surfaces
- B41L 17/22 . Driving gear; Control thereof
- B41L 17/24 . Attachments, e.g. for punching, cutting, severing
  
- B41L 19/00** **Duplicating or printing apparatus or machines for office or other commercial purposes, of special types or for particular purposes and not otherwise provided for (addressographs B41L 45/00)**
- B41L 19/003 . {using heat, e.g. wax transfer}
- B41L 19/006 . {Auxiliary numbering devices}
- B41L 19/02 . having forme cylinders carrying a plurality of printing surface, or for performing letterpress and lithographic processes selectively or in combination (in general B41F 11/00)
- B41L 19/04 . for printing from selected parts of one or more printing surface in one cycle, e.g. line printing (by inking selected areas B41L 27/20)
- B41L 19/06 . . . with co-operating forme and impression cylinders
- B41L 19/08 . . . by effecting relative movement of forme and impression cylinders during printing cycle
- B41L 19/10 . . . by projecting and retracting parts of the surfaces of the forme cylinders
- B41L 19/12 . . . by masking parts of the printing surfaces on the forme cylinders
- B41L 19/14 . . . by selective damping of the copy material
- B41L 19/16 . . . by selective tripping of impression cylinders

**Guidance heading:** **Common details of, or accessories for, apparatus or machines for manifolding, duplicating, or printing for office or other commercial purposes**

- B41L 21/00** **Devices for conveying sheets or webs of copy material through the apparatus or machines for manifolding, duplicating, or printing (mechanisms for conveying copy material through addressographs or like series-printing machines B41L 47/24; { feeding sheets or webs to or from printing apparatus or machines B65H; in printing presses in general B41F 21/00})**
- B41L 21/02 . for conveying sheets
- B41L 21/04 . . Pins
- B41L 21/06 . . Grippers
- B41L 21/08 . . . Suction-operated grippers
- B41L 21/10 . . Combinations of endless conveyors and grippers
- B41L 21/12 . for conveying webs
  
- B41L 23/00** **Devices for treating the surfaces of sheets, webs, or other articles in connection with printing (as a final step in the manufacture of such articles, see the relevant places, e.g. B29C 71/00, D21H 23/00 or D21H 25/00; after-treatment of prints B41M 7/00)**
- B41L 23/02 . by damping, e.g. by moistening copy sheets in connection with hectographic printing
- B41L 23/04 . . using friction rollers

- B41L 23/06 . . . using brushes
- B41L 23/08 . . . using spray elements
- B41L 23/10 . . . using endless bands
- B41L 23/12 . . . using absorbent pads
- B41L 23/14 . . . Ducts, containers, or like supply devices for liquids
- B41L 23/16 . . . Devices for tripping or lifting damping rollers; Supporting, adjusting, or removing arrangements therefor
- B41L 23/18 . . . Construction of damping rollers
- B41L 23/20 . . . by heat drying, by cooling, by applying powders
- B41L 23/22 . . . Powdering devices, e.g. for preventing set-off
- B41L 23/24 . . . Print-finishing devices, e.g. for glossing prints
  
- B41L 25/00** **Devices for damping printing surfaces, e.g. moistening printing surfaces in connection with lithographic printing (applying liquids or other fluent materials to surfaces in general [B05](#))**
- B41L 25/005 . . . {Pre-damping etching devices}
- B41L 25/02 . . . using friction rollers
- B41L 25/04 . . . using brushes
- B41L 25/06 . . . using spraying elements
- B41L 25/08 . . . using endless bands
- B41L 25/10 . . . using absorbent pads
- B41L 25/12 . . . Ducts, containers, or like supply devices for liquids
- B41L 25/14 . . . Inking rollers serving also to apply ink repellent {in rotary lithographic machines [B41F 7/36](#)}
- B41L 25/16 . . . Devices for tripping or lifting damping rollers; Supporting, adjusting, or removing arrangements therefor {in rotary lithographic machines [B41F 7/40](#)}
- B41L 25/18 . . . Construction of damping rollers
  
- B41L 27/00** **Inking arrangements or devices (inking units for stencilling apparatus [B41L 13/18](#); applying liquids or other fluent materials to surfaces, in general [B05](#))**
- B41L 27/02 . . . adapted for inking by hand
- B41L 27/04 . . . Ducts, containers, or supply devices or ink-level control devices (level control in general [G05D 9/00](#))
- B41L 27/06 . . . Duct blades or like supply devices
- B41L 27/08 . . . Troughs or like reservoirs with immersed, or partly immersed rollers
- B41L 27/10 . . . with ink-ejecting means, e.g. pumps
- B41L 27/12 . . . Feed or duct rollers (messenger or moving transfer rollers [B41L 27/16](#))
- B41L 27/14 . . . . . adjustable for regulating supply
- B41L 27/16 . . . Messenger or other moving transfer rollers
- B41L 27/18 . . . Continuous, e.g. endless-band apparatus
- B41L 27/20 . . . for inking selected parts of printing formes
- B41L 27/22 . . . Ink removing or collecting devices
- B41L 27/24 . . . for inking from interior of cylinder

B41L 27/26	. Absorbent pads
B41L 27/28	. Construction of inking rollers
B41L 27/30	. Spray apparatus
B41L 27/32	. Arrangements for tripping, lifting, adjusting, or removing inking rollers; Supports, bearings or forks therefor
B41L 27/34	.. Lifting or adjusting devices
B41L 27/36	... Cam, eccentric, wedge, or the like devices
B41L 27/38	... fluid-pressure operated
B41L 27/40	... magnetically operated
<b>B41L 29/00</b>	<b>Devices for attaching printing elements or formes to supports { in printing presses in general <a href="#">B41F 27/00</a>}</b>
B41L 29/02	. magnetic
B41L 29/04	. for attaching printing elements to flat type-beds
B41L 29/06	. for attaching elements to forme cylinders
B41L 29/08	. for attaching print formes to flat type-beds
B41L 29/10	. for attaching non-deformable curved printing formes to forme cylinders
B41L 29/12	. for attaching flexible printing formes
B41L 29/14	.. Clamping devices
B41L 29/16	... operating automatically during operation of rotary machines to attach the printing formes to the forme cylinders
B41L 29/18	.... electromagnetic, pneumatic, or hydraulic
B41L 29/20	... for adjusting position of leading edges of flexible printing formes circumferentially of forme cylinders
B41L 29/22	. for attaching printing formes to intermediate supports, e.g. adapter members
<b>B41L 31/00</b>	<b>Devices for removing flexible printing formes from forme cylinders</b>
<b>B41L 33/00</b>	<b>Pressing flexible printing formes or sheets or webs of copy material against cylinders, e.g. for smoothing purposes {in printing presses in general <a href="#">B41F 25/00</a>}</b>
<b>B41L 35/00</b>	<b>Cylinders for apparatus or machines for manifolding, duplicating, or printing for office or other commercial purposes {in printing presses in general <a href="#">B41F 13/08</a>}</b>
B41L 35/02	. Forme cylinders
B41L 35/04	.. Registering devices
B41L 35/06	... with means for displacing the cylinders
B41L 35/08	... with means for displacing the printing formes on the cylinders
B41L 35/10	. Impression cylinders
B41L 35/12	. Bearings or supports for forme, offset, or transfer or impression cylinders
B41L 35/14	. Means for heating or cooling forme or impression cylinders
B41L 35/16	. Cylinder-tripping devices; Cylinder impression adjustments
B41L 35/18	.. Arrangements or dispositions of cylinder bearings, forks, or supports
B41L 35/20	... Eccentric bearings

B41L 35/22	...	Sliding bearings
B41L 35/24	...	Swinging bearings
B41L 35/26	..	Cylinder lifting or adjusting devices
B41L 35/28	...	Cams, eccentrics, wedges, or the like
B41L 35/30	...	electrically or magnetically operated
B41L 35/32	...	fluid-pressure operated
B41L 35/34	.	Guards or covers, e.g. for safety purposes, for preventing egress or ingress of foreign matter
<b>B41L 38/00</b>	<b>Devices for attaching coverings or make-ready devices; Guiding devices for coverings (make-ready devices <a href="#">B41N 6/00</a>; blankets or like coverings <a href="#">B41N 10/00</a>)</b>	
B41L 38/02	.	attaching to impression cylinders
B41L 38/04	.	attaching of endless or like continuously-fed coverings
<b>B41L 39/00</b>	<b>Indicating, counting, warning, control, or safety devices (ink-level control devices <a href="#">B41L 27/04</a>; such devices in general, see relevant subclasses, e.g. counting in general <a href="#">G06M</a>)</b>	
B41L 39/02	.	Indicating devices, e.g. counters
B41L 39/04	.	Tripping devices or stop motions
B41L 39/06	..	for starting or stopping operation of sheet or web feed
B41L 39/08	..	for starting or stopping operation of cylinders ( <a href="#">B41L 19/16</a> takes precedence)
B41L 39/10	..	for starting or stopping operation of damping or inking units
B41L 39/12	..	for starting or stopping the machine as a whole
B41L 39/14	..	Automatic control of tripping devices by feelers, photoelectric devices, pneumatic devices, or other detectors
B41L 39/16	.	Programming systems for automatic control of sequence of operations
<b>B41L 41/00</b>	<b>Cleaning arrangements or devices {for printing presses in general <a href="#">B41F 35/00</a>}</b>	
B41L 41/02	.	for forme cylinders
B41L 41/04	.	for inking rollers
B41L 41/06	.	for offset cylinders
<b>B41L 43/00</b>	<b>Auxiliary folding, collecting, or depositing of sheets or webs (in general <a href="#">B65H</a>)</b>	
B41L 43/02	.	Folding
B41L 43/04	..	lengthwise
B41L 43/06	..	crosswise
B41L 43/08	..	Folding-cylinders or drums
B41L 43/10	.	Collecting
B41L 43/12	..	and stapling
B41L 43/14	.	Adding inserts
B41L 43/16	.	Depositing



**Guidance heading: Addressing machines or like series-printing machines****B41L 45/00****Kinds or types of addressing machines or of like series-printing machines**

B41L 45/02

- . using printing plates

B41L 45/04

- . . composed on type-setting machines

B41L 45/06

- . . for addressing combined with other operations, e.g. franking, collating documents

B41L 45/08

- . with printing surfaces in the form of belts, or carried by chains

B41L 45/10

- . . for addressing combined with other operations, e.g. franking, collating documents

B41L 45/12

- . with separate devices for printing additional text or images, e.g. for printing receipts on blank sheets or webs

**B41L 47/00****Details of addressographs or like series-printing machines ([common details of printing machines B41F 21/00 to B41F 35/00](#))**

B41L 47/02

- . Applications of printing surfaces in addressing machines or like series-printing machines ([printing surfaces in general B41N](#))

B41L 47/04

- . . of flat or curved plates for relief printing

B41L 47/06

- . . of flat or curved stencils

B41L 47/08

- . . of flat or curved plates for hectographic printing

B41L 47/10

- . . or printing surfaces in the form of belts or chains

B41L 47/12

- . Auxiliary devices, e.g. for flattening plates, for assembling plates in predetermined order, for wetting stencils

B41L 47/14

- . Devices or arrangements for storing or handling plates

B41L 47/16

- . . Magazines

B41L 47/18

- . . Devices for feeding the plates in their plane

B41L 47/20

- . . Devices for feeding the plates otherwise than in their plane, e.g. transversely thereto

B41L 47/22

- . . with means for presenting plates for repeated printing operations

B41L 47/24

- . Mechanisms for conveying copy material through addressographs or like series-printing machines ([in general B65;](#))

B41L 47/26

- . . for conveying or positioning single sheetlike articles, e.g. envelopes

B41L 47/28

- . . with gauging-rulers or the like, e.g. for facilitating hand-printing of copy material fed from stacks

B41L 47/30

- . . for conveying webs

B41L 47/32

- . . . combined with devices for other purposes, e.g. for cutting, severing, gluing

B41L 47/34

- . . . specially adapted for conveying chains of forms

B41L 47/36

- . . for conveying sheets or webs for tabulating purposes; Tabulating mechanisms combined with sheet or web conveyers

B41L 47/38

- . . . with clamping means for head or margin

B41L 47/40

- . . . with means for automatically reciprocating sheet or web transversely to enable addresses to be printed in columns side by side

B41L 47/42

- . Printing mechanisms

B41L 47/44

- . . using flat platens

- B41L 47/46 . . using line-contact members, e.g. rollers, cylinders
- B41L 47/48 . . with inking or ink-ribbon devices
- B41L 47/50 . . using multiple impression-members or -surfaces, e.g. for printing series of addresses with standing context, for printing from selected parts of printing surfaces ([applications of counting, numbering, or dating apparatus B41L 49/02](#))
- B41L 47/52 . . with movable counter-pressure plates for printing from selected areas of printing surfaces
- B41L 47/54 . . with means for automatically reciprocating printing plate transversely to enable addresses to be printed in columns side by side
- B41L 47/56 . Indicating, warning, control, or safety devices ([B41L 47/58 takes precedence](#))
- B41L 47/58 . Arrangements or devices for selecting, or for facilitating selection of, text or image to be printed
- B41L 47/60 . . Markings applied to printing plates, e.g. code marks, colours, clips, perforations, edge notches, projections
- B41L 47/62 . . Selecting devices, e.g. cams, windows, positions indicators
- B41L 47/64 . . . Automatic selecting devices with or without overriding manual control, e.g. with scanning-fingers, with pre-setting controls operable by push-buttons, with programme control by punched tapes
- B41L 49/00 Accessories or attachments for addressographs or like series-printing machines**
- B41L 49/02 . Counting, numbering, or dating devices
- B41L 49/04 . Devices for applying selection markings to printing plates