

**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 manifolded 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

**B41L 11/00**      **Apparatus for directly duplicating from hectographic masters in mirror image, i.e.**

**"wet duplicators" for producing positive copies**

- 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 ( [chemical aspects B41M](#) )

**B41L 13/00**      **Stencilling apparatus for office or other commercial use** ( [screen printing B41F 15/00](#); [stencils, stencil materials, carriers therefor B41N 1/24](#) )

- 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 { ( [typewriters for Braille B41J 3/32](#) ) }
- B41L 13/14 . Attachments, e.g. for punching, cutting, severing
- B41L 13/16 . Driving gear; Control thereof
- B41L 13/18 . Inking units

**B41L 15/00**      **Letterpress printing apparatus specially adapted for office or other commercial purposes** ( [in general B41F](#) ; [printing plates or foils, materials thereof B41N 1/00](#) )

- 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

**B41L 17/00**      **Lithographic printing apparatus for office or other commercial purposes ( in general [B41F](#) ; printing plates or foils, materials therefor [B41N 1/00](#) )**

- 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 manifold, duplicating, or printing for office or other commercial purposes**

<b>B41L 21/00</b>	<b>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 <a href="#">B41L 47/24</a>; { feeding sheets or webs to or from printing apparatus or machines <a href="#">B65H</a> ; in printing presses in general <a href="#">B41F 21/00</a> } )</b>
<a href="#">B41L 21/02</a>	. for conveying sheets
<a href="#">B41L 21/04</a>	. . Pins
<a href="#">B41L 21/06</a>	. . Grippers
<a href="#">B41L 21/08</a>	. . . Suction-operated grippers
<a href="#">B41L 21/10</a>	. . Combinations of endless conveyors and grippers
<a href="#">B41L 21/12</a>	. for conveying webs
<b>B41L 23/00</b>	<b>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. <a href="#">B29C 71/00</a>, <a href="#">D21H 23/00</a> or <a href="#">D21H 25/00</a>; after-treatment of prints <a href="#">B41M 7/00</a> )</b>
<a href="#">B41L 23/02</a>	. by damping, e.g. by moistening copy sheets in connection with hectographic printing
<a href="#">B41L 23/04</a>	. . using friction rollers
<a href="#">B41L 23/06</a>	. . using brushes
<a href="#">B41L 23/08</a>	. . using spray elements
<a href="#">B41L 23/10</a>	. . using endless bands
<a href="#">B41L 23/12</a>	. . using absorbent pads
<a href="#">B41L 23/14</a>	. . Ducts, containers, or like supply devices for liquids
<a href="#">B41L 23/16</a>	. . Devices for tripping or lifting damping rollers; Supporting, adjusting, or removing arrangements therefor
<a href="#">B41L 23/18</a>	. . Construction of damping rollers
<a href="#">B41L 23/20</a>	. by heat drying, by cooling, by applying powders
<a href="#">B41L 23/22</a>	. . Powdering devices, e.g. for preventing set-off
<a href="#">B41L 23/24</a>	. Print-finishing devices, e.g. for glossing prints
<b>B41L 25/00</b>	<b>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 <a href="#">B05</a> )</b>
<a href="#">B41L 25/005</a>	. { Pre-damping etching devices }
<a href="#">B41L 25/02</a>	. using friction rollers
<a href="#">B41L 25/04</a>	. using brushes
<a href="#">B41L 25/06</a>	. using spraying elements
<a href="#">B41L 25/08</a>	. 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
- B41L 29/00** **Devices for attaching printing elements or formes to supports** { in printing presses in general [B41F 27/00](#) }

- 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
- B41L 31/00      Devices for removing flexible printing formes from forme cylinders**
- B41L 33/00      Pressing flexible printing formes or sheets or webs of copy material against cylinders, e.g. for smoothing purposes { in printing presses in general [B41F 25/00](#) }**
- B41L 35/00      Cylinders for apparatus or machines for manifolding, duplicating, or printing for office or other commercial purposes { in printing presses in general [B41F 13/08](#) }**
- 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
- B41L 38/00** **Devices for attaching coverings or make-ready devices; Guiding devices for coverings ( make-ready devices [B41N 6/00](#); blankets or like coverings [B41N 10/00](#) )**
- B41L 38/02 . attaching to impression cylinders
- B41L 38/04 . attaching of endless or like continuously-fed coverings
- B41L 39/00** **Indicating, counting, warning, control, or safety devices ( ink-level control devices [B41L 27/04](#); such devices in general, see relevant subclasses, e.g. counting in general [G06M](#) )**
- 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 { [B41L 19/16](#) 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
- B41L 41/00** **Cleaning arrangements or devices { for printing presses in general [B41F 35/00](#) }**
- B41L 41/02 . for forme cylinders
- B41L 41/04 . for inking rollers
- B41L 41/06 . for offset cylinders
- B41L 43/00** **Auxiliary folding, collecting, or depositing of sheets or webs ( in general [B65H](#) )**
- 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