B41L

COOPERATIVE PATENT CLASSIFICATION

B PERFORMING OPERATIONS; TRANSPORTING

(Printing; Linen machines; Typewriters; Stamps)

NOTES

1. 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.

2. 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: eas 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.

3. 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.

WARNING

In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

Manifolding by means of pressure-sensitive layers or intermediaries

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

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

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

1/06 . on single form sets

1/08 . on continuous manifold assemblies

1/10 . Separate folding or disposition of single webs

1/12 . Severing webs to obtain single sheets or forms, e.g. by cutting, by bursting

1/14 . Severing edge perforations from webs

1/16 . Carriers or supply devices for pressure-sensitive material, e.g. for carbon sheets; Carbon gloves

1/18 . for carbon webs; Continuous carbon supply mechanisms

1/20 . Manifolding assemblies, e.g. book-like assemblies {multi-copy labels G09F 3/0288}

1/22 . made up of single sheets or forms

1/24 . Pads or books

1/26 . Continuous assemblies made up of webs

1/28 . in rolled or wound form

1/30 . folded longitudinally

1/32 . folded transversely

1/321 . . . [Stacks of sheets attached to a carrier strip or web]

1/323 . . . [Uniting several webs, e.g. transversely]

1/325 . . . [Longitudinally]

1/326 . . . [Severance lines; Perforations]

1/328 . . . [Removing carbon sheets]

1/34 . . for making masters for hectographic duplicators

1/36 . . with pressure-sensitive layers or coating other than carbon (sheet materials B41M 5/00)

3/00 Platen or like sheet supports for manifolding using pressure-sensitive layers or intermediaries, e.g. for book-keeping purposes

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}
Apparatus or machines for duplicating or printing for office or other commercial purposes

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

7/02 . . Bars provided with pins engaging perforations in the elements
7/06 . . with movable clamping or guiding means for the elements of the manifolding assembly
7/08 . . with non-mechanical means for holding the elements in registered position, e.g. magnetic means
7/10 . . 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
3/12 . . Auxiliary devices
3/14 . . Magazines or storage compartments, e.g. for slips
3/16 . . Web-feeding arrangements
3/18 . . Displaceable covers, e.g. with windows
3/20 . . for facilitating manifolding in books
3/22 . . Applications of ink ribbons; Holding, feeding, or guiding means therefor

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

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

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

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

11/00 Apparatus for directly duplicating from hectographic masters in mirror image, i.e. "wet duplicators" for producing positive copies

11/02 . . with a flat support carrying the masters
11/04 . . and with carriages for feeding the sheets
11/06 . . for stack duplicating with pressure rollers
11/08 . . with rotary cylinders carrying the masters
11/10 . . with two rollers between which master is stretched
11/12 . . Driving gear; Control thereof
11/14 . . Constructional features of masters (chemical aspects B41M)

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

13/02 . . with flat stencil carriers
13/04 . . with curved or rotary stencil carriers
13/06 . . with a single cylinder carrying the stencil
13/08 . . with stencil carried by two or more cylinders, e.g. through the intermediary of endless bands
13/10 . . . Clips or clamps for securing stencils to stencil carriers
13/12 . . for special purposes, e.g. for reproducing Braille characters (typewriters for Braille B41J 3/32)
13/14 . . Attachments, e.g. for punching, cutting, severing
13/16 . . Driving gear; Control thereof
13/18 . . Inking units

15/00 Letterpress printing apparatus specially adapted for office or other commercial purposes (in general B41F; printing plates or foils, materials therefor B41N 1/00)

15/02 . . with flat printing surfaces, e.g. with flat type-beds, surfaces made of thin sheet material or moulded from plastics or rubber
15/04 . . of composed type locked in chases
15/06 . . with curved printing surfaces, e.g. cylinders
15/08 . . with stereotypes
15/10 . . for multicolour printing; for perfecting
15/12 . . Driving gear; Control thereof
15/14 . . Attachments, e.g. for punching, cutting, severing

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

17/02 . . for direct impression printing
17/04 . . with flat printing surfaces
17/06 . . with curved printing surfaces, e.g. cylinders
17/08 . . for offset printing
17/10 . . with flat printing surfaces, e.g. co-operating with travelling offset cylinders
17/12 . . with curved printing surfaces, e.g. forme cylinders
17/14 . . of two-cylinder type, e.g. co-operating forme and impression cylinders
17/16 . . of three-cylinder type
17/18 . . for multicolour printing, e.g. tandem machines; for perfecting
17/20 . . without damping means, e.g. using heat-activatable inks, refrigerated printing surfaces
17/22 . . Driving gear; Control thereof
17/24 . . Attachments, e.g. for punching, cutting, severing
Apparatus or machines for duplicating or printing for office or other commercial purposes

21/00 Devices for conveying sheets or webs of copy material through the apparatus or machinery for selecting parts of a printing surface or for conveying sheets or webs to or from printing apparatus or machines

21/02 . for conveying sheets
21/04 . Cams, eccentrics, wedges, or the like devices
21/06 . Grippers
21/08 . Suction-operated grippers
21/10 . Combinations of endless conveyors and grippers
21/12 . for conveying webs

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)

23/02 . by damping, e.g. by moistening copy sheets in connection with hectographic printing
23/04 . using friction rollers
23/06 . using brushes
23/08 . using spray elements
23/10 . using endless bands
23/12 . using absorbent pads
23/14 . Ducts, containers, or like supply devices for liquids
23/16 . Devices for tripping or lifting damping rollers; Supporting, adjusting, or removing arrangements therefor
23/18 . Construction of damping rollers
23/20 . by heat drying, by cooling, by applying powders
23/22 . Powdering devices, e.g. for preventing set-off
23/24 . Print-finishing devices, e.g. for glossing prints

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)

25/005 . [Pre-damping etching devices]
25/02 . using friction rollers
25/04 . using brushes
25/06 . using spraying elements
25/08 . using endless bands
25/10 . using absorbent pads
25/12 . Ducts, containers, or like supply devices for liquids
25/14 . Inking rollers serving also to apply ink repellent ((in rotary lithographic machines B41F 7/36))
25/16 . Devices for tripping or lifting damping rollers; Supporting, adjusting, or removing arrangements therefor ((in rotary lithographic machines B41F 7/40))
25/18 . Construction of damping rollers

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)

27/02 . adapted for inking by hand
27/04 . Ducts, containers, or supply devices or ink-level control devices (level control in general G05D 9/00)
27/06 . . Duct blades or like supply devices
27/08 . . Troughs or like reservoirs with immersed, or partly immersed rollers
27/10 . . with ink-ejecting means, e.g. pumps
27/12 . . Feed or duct rollers (messenger or moving transfer rollers B41L 27/16)
27/14 . . adjustable for regulating supply
27/16 . . Messenger or other moving transfer rollers
27/18 . . Continuous, e.g. endless-band apparatus
27/20 . for inking selected parts of printing formes
27/22 . Ink removing or collecting devices
27/24 . for inking from interior of cylinder
27/26 . Absorbent pads
27/28 . Construction of inking rollers
27/30 . Spray apparatus
27/32 . . Arrangements for tripping, lifting, adjusting, or removing inking rollers; Supports, bearings or forks therefor
27/34 . . Lifting or adjusting devices
27/36 . . Cams, eccentrics, wedges, or the like devices
27/38 . . Fluid-pressure operated
27/40 . . magnetically operated

29/00 Devices for attaching printing elements or formes to supports ((in printing presses in general B41F 27/00))

29/02 . magnetic
29/04 . for attaching printing elements to flat type-beds
29/06 . for attaching elements to forme cylinders
29/08 . for attaching print formes to flat type-beds
29/10 . for attaching non-deformable curved printing formes to forme cylinders
29/12 . for attaching flexible printing formes
29/14 . Clamping devices
29/16 . . . operating automatically during operation of rotary machines to attach the printing formes to the forme cylinders
29/18 . . . electromagnetic, pneumatic, or hydraulic
office or...

Common details of, or accessories for, apparatus or machines for manifolding, duplicating, or printing for

39/16 Programming systems for automatic control of sequence of operations

41/00 Cleaning arrangements or devices ((for printing presses in general B41F 35/00))

41/02 for forme cylinders

41/04 for inking rollers

41/06 for offset cylinders

43/00 Auxiliary folding, collecting, or depositing of sheets or webs (in general B65H)

43/02 Folding

43/04 . . . lengthwise

43/06 . . . crosswise

43/08 . . . Folding-cylinders or drums

43/10 Collecting

43/12 . . . and stapling

43/14 . Adding inserts

43/16 . Depositing

Addressing machines or like series-printing machines

45/00 Kinds or types of addressing machines or of like series-printing machines

45/02 . using printing plates

45/04 . . . composed on type-setting machines

45/06 . . . for addressing combined with other operations, e.g. franking, collating documents

45/08 . . with printing surfaces in the form of belts, or carried by chains

45/10 . . . for addressing combined with other operations, e.g. franking, collating documents

45/12 . . . with separate devices for printing additional texts or images, e.g. for printing receipts on blank sheets or webs

47/00 Details of addressographs or like series-printing machines (common details of printing machines B41F 21/00 - B41F 35/00)

47/02 Applications of printing surfaces in addressing machines or like series-printing machines (printing surfaces in general B41N)

47/04 . . . of flat or curved plates for relief printing

47/06 . . . of flat or curved stencils

47/08 . . . of flat or curved plates for hectographic printing

47/10 . . . of printing surfaces in the form of belts or chains

47/12 . . Auxiliary devices, e.g. for flattening plates, for assembling plates in predetermined order, for wetting stencils

47/14 . . . Devices or arrangements for storing or handling plates

47/16 . . . Magazines

47/18 . . . Devices for feeding the plates in their plane

47/20 . . . Devices for feeding the plates otherwise than in their plane, e.g. transversely thereto

47/22 . . . with means for presenting plates for repeated printing operations

47/24 . . . Mechanisms for conveying copy material through addressographs or like series-printing machines (in general B65:)

47/26 . . . for conveying or positioning single sheetlike articles, e.g. envelopes

47/28 . . . with gauging-rulers or the like, e.g. for facilitating hand-printing of copy material fed from stacks

47/30 . . . for conveying webs
Addressing machines or like series-printing machines

47/32 . . . combined with devices for other purposes, e.g.
for cutting, severing, gluing
47/34 . . . specially adapted for conveying chains of
forms
47/36 . . . for conveying sheets or webs for tabulating
purposes; Tabulating mechanisms combined with
sheet or web conveyors
47/38 . . . with clamping means for head or margin
47/40 . . . with means for automatically reciprocating
sheet or web transversely to enable addresses to
be printed in columns side by side
47/42 . . . Printing mechanisms
47/44 . . . using flat platens
47/46 . . . using line-contact members, e.g. rollers, cylinders
47/48 . . . with inking or ink-ribbon devices
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)
47/52 . . . with movable counter-pressure plates for printing
from selected areas of printing surfaces
47/54 . . . with means for automatically reciprocating
printing plate transversely to enable addresses to
be printed in columns side by side
47/56 . . . Indicating, warning, control, or safety devices
(B41L 47/58 takes precedence)
47/58 . . . Arrangements or devices for selecting, or for
facilitating selection of, text or image to be printed
47/60 . . . Markings applied to printing plates, e.g. code
marks, colours, clips, perforations, edge notches,
projections
47/62 . . . Selecting devices, e.g. cams, windows, positions
indicators
47/64 . . . Automatic selecting devices with or without
overriding manual control, e.g. with scanning-
fingers, with presetting controls operable by
push-buttons, with programme control by
punched tapes

49/00 Accessories or attachments for addressographs or
like series-printing machines
49/02 . . . Counting, numbering, or dating devices
49/04 . . . Devices for applying selection markings to printing
plates