CPC  COOPERATIVE PATENT CLASSIFICATION

B  PERFORMING OPERATIONS; TRANSPORTING

(NOTES omitted)

TRANSPORTING

B65  CONVEYING; PACKING; STORING; HANDLING THIN OR FILAMENTARY MATERIAL

B65C  LABELLING OR TAGGING MACHINES, APPARATUS, OR PROCESSES (nailing or stapling in general B25C, B27F; applying labels for packaging purposes B65B; labels, name-plates G09F) {{(series-printing machines B41L; containers for the storage or transport of packages B65D)}}

NOTE

In this subclass, the following term is used with the meaning indicated:

• "labels" covers also decalcomanias, stamps or the like

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.

1/00  Labelling flat essentially-rigid surfaces (labelling of fabrics B65C 5/00)

1/02  . Affixing labels to one flat surface of articles, e.g. of packages, of flat bands

1/021  . . [the label being applied by movement of the labelling head towards the article (B65C 1/028 takes precedence)]

1/023  . . [and being supplied from a stack (removing labels from stacks B65C 9/12)]

1/025  . . [the label being picked up by the article to be labelled, i.e. the labelling head remaining stationary]

1/026  . . [and the article being moved out of its normal conveyance path towards the labelling head (B65C 1/028 takes precedence)]

1/028  . . [the labelling head and the article both being moved towards each other]

1/04  . Affixing labels, e.g. wrap-around labels, to two or more flat surfaces of a polyhedral article

1/042  . . [using two or more applicators, e.g. cooperating rollers or brushes]

1/045  . . [acting one after the other]

1/047  . . [by rotating the article about one of its axes]

3/00  Labelling other than flat surfaces (of fabrics B65C 5/00)

3/02  . Affixing labels to elongated objects, e.g. wires, cables, bars, tubes

3/04  . . Applying bands or labels to cigars or cigarettes {(bands for cigars or cigarettes A24D 1/16)}

3/06  . Affixing labels to short rigid containers

3/065  . . [by placing tubular labels around the container (applying preformed tubular sheathings of plastics in general B29C 63/18; applying protective covers to closures B67B 5/03)]

3/08  . . to container bodies {(B65C 3/065 takes precedence)}

3/10  . . . the container being positioned for labelling with its centre-line horizontal

3/105  . . . . [the machine being hand- or foot driven]

3/12  . . . . by rolling the labels onto cylindrical containers, e.g. bottles

3/14  . . . . the container being positioned for labelling with its centre-line vertical

3/145  . . . . [the machine being hand- or foot driven]

3/16  . . . . by rolling the labels onto cylindrical containers, e.g. bottles

3/163  . . . . [where the label is of the wrap-around type]

3/166  . . . . {the label being shrunken after application}

3/18  . . . to container necks {(B65C 3/065 takes precedence)}

3/20  . . . . to bottle closures (applying closures or capsules to bottles B67B)

3/22  . . . . Affixing metal foil coverings

3/24  . . . . Affixing labels indicating original state of bottle snap or screw closure

3/26  . Affixing labels to non-rigid containers, e.g. bottles made of polyethylene, boxes to be inflated by internal air pressure prior to labelling

5/00  Labelling fabrics or comparable materials or articles with deformable surface, e.g. paper, fabric rolls, stockings, shoes (affixing labels to non-rigid containers B65C 3/26; by sewing D05B {; applying marks during shoe manufacture A43D 95/14; marking textile materials by attaching tags D06H 1/04})

5/02  . using adhesives

5/04  . . Thermo-activatable adhesives

5/06  . . using staples { (man-operated portable stapling tools B25C 5/00; permanently attaching together sheets B42B 4/00)
Affixing tags (in combination with filling of tea bags B65B 29/04 ; multi-step processes for making labels or tags B31D 1/02)

[...]

Details of labelling machines or apparatus (attaching articles to carriers B65B 15/00; cards of samples 2009 F 5/04)

[...]

Label feeding

9/06 . Devices for presenting articles in predetermined attitude or position at labelling station

9/062 . . . (for orienting bottles having swing stoppers, i.e. by means responsive to the position of the swing stoppers)

9/065 . . . (for orienting articles having irregularities in their shape, the irregularities being detected by mechanical means)

9/067 . . . (for orienting articles having irregularities, e.g. holes, spots or markings, e.g. labels or imprints, the irregularities or markings being detected)

9/08 . Label feeding

9/10 . . . Label magazines

9/105 . . . . (Storage arrangements including a plurality of magazines)

9/12 . . . Removing separate labels from stacks (for printing B41F; separating articles from piles in general B65H) (multi-step processes for making labels or tags B31D 1/02; for printing B41F)

9/14 . . . by vacuum

9/16 . . . by wetting devices

9/18 . . . Label feeding from strips, e.g. from rolls

9/1803 . . . . [the labels being cut from a strip]

9/1807 . . . . [and transferred directly from the cutting means to an article]

9/1811 . . . . [the transfer involving heating means]

9/1815 . . . . [and transferred by suction means]

9/1819 . . . . [the suction means being a vacuum drum]

9/1823 . . . . . [the transfer involving heating means, e.g. heat activated glue-coating of the label]

9/1826 . . . . . [the suction means being a movable vacuum arm or pad]

9/183 . . . [and transferred by gripping means or feeding rollers]

2009/1834 . . . [Details of cutting means]

2009/1838 . . . . [Cutting drum]

2009/1842 . . . . [Temperature control]

2009/1846 . . . . [Laser]

2009/1849 . . . . . [Fluid-jet]

2009/1853 . . . . . [Electrical resistance]

2009/1857 . . . . . [two co-acting knifes]

2009/1861 . . . . . . [whereby one knife remains stationary]

9/1865 . . . . . [the labels adhering on a backing strip]

9/1869 . . . . . . . [and being transferred directly from the backing strip onto the article]

9/1872 . . . . . . . [the transfer involving heating means, e.g. for decals]

9/1876 . . . . . . [and being transferred by suction means]

9/188 . . . . . . . [the suction means being a vacuum drum]

9/1884 . . . . . . . [the suction means being a movable vacuum arm or pad]

2009/1888 . . . . . . [Overlapping labels]

9/1892 . . . . . [Spools or cassettes for strips (in general B65H 75/00)]

9/1896 . . . . . [the labels being torn or burst from a strip]

9/20 . . . Gluing the labels or articles

9/22 . . . . . [by wetting, e.g. by applying liquid glue or a liquid to a dry glue coating]

9/2204 . . . . . [using spraying means]

9/2208 . . . . . [Applying the liquid on the article]

9/2213 . . . . . [Applying the liquid on the label]
Manually-controlled or manually-operable label dispensers, e.g. modified for the application of labels to articles (special furniture, fittings, or accessories for shops, stores, bars, or the like A47F; for paper napkins, for toilet paper A47K; for playing cards A63F; moveable strip writing or reading apparatus B42D 19/00; adhesive tape dispensers B65H 35/002; dispensers for tickets G07B; coin-operated dispensers for stamps G07E [; dispensing devices for pamphlets from vehicles G09F 21/22])

11/002  .  [modified for the application of labels to articles]
11/004  .  [label feeding from strips]
11/006  .  [using electrical or electro-mechanical means (B65C 11/0282 and B65C 11/066 take precedence)]
11/008  .  [using pneumatic means (B65C 11/0294 and B65C 11/006 take precedence)]
11/02  .  [having printing equipment]
11/0205 .  [modified for the application of labels to articles]
11/021  .  [label feeding from strips]
11/0215 .  [Labels being adhered to a web]
11/0221 .  [Advancing the web by friction]
11/0226 .  [electrically driven]
11/0231 .  [by actuating a handle manually]
11/0236 .  [Advancing the web by a cog wheel]
11/0242 .  [electrically driven]
11/0247 .  [by actuating a handle manually]
11/0252 .  [Advancing the web by grippers]
11/0257 .  [electrically driven]
11/0263 .  [by actuating a handle manually]
11/0268 .  [Advancing the web by winding it up]
11/0273 .  [electrically driven]
11/0278 .  [by actuating a handle manually]
11/0284 .  [Linerless labels]
11/0289 .  [using electrical or electro-mechanical means (B65C 11/0205 takes precedence)]
11/0294 .  [using pneumatic means]
11/04  .  [having means for moistening the labels]
11/043 .  [modified for the application of labels to articles]
11/046 .  [label feeding from strips]
11/06  .  [having means for heating thermo-activatable labels]
11/062 .  [modified for the application of labels to articles]
11/064 .  [label feeding from strips]
11/066 .  [using electrical or electro-mechanical means]
11/068 .  [using pneumatic means]

**Portable tools for labelling or tagging, associated with holders when in use**

**Details of manually controlled or manually operable label dispensers**

- Data entry devices
- Readers
- Optical scanners
- Electromagnetical scanners
- Keyboards; Touchscreens
- removable
- permanent
- Floppies; Smartcards
- Hosts
- permanent connection
- via cable
- via RF
- storing into memory
Printing equipment

- using printing heads
- electrically actuated
- mechanically actuated, e.g. by a hand lever
- Means for controlling the force of the printing head

Means for applying print to labels

Ribbons

Inking rollers

- using several printing heads
- using color printing heads
- using thermosensitive labels
- accommodating labels of different sizes

Cutting equipment

Specific details of different parts

- Applying rollers
- Peeling devices
- web brakes
- counters
- platens
- housings
- correction label applying devices
- Label sensing devices
- Predetermining the label length