

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)	3/10	. . . the container being positioned for labelling with its centre-line horizontal
1/02	. Affixing labels to one flat surface of articles, e.g. of packages, of flat bands	3/105	. . . . {the machine being hand- or foot driven}
1/021	. . {the label being applied by movement of the labelling head towards the article (B65C 1/028 takes precedence)}	3/12	. . . . by rolling the labels onto cylindrical containers, e.g. bottles
1/023	. . . {and being supplied from a stack (removing labels from stacks B65C 9/12)}	3/14	. . . the container being positioned for labelling with its centre-line vertical
1/025	. . {the label being picked up by the article to be labelled, i.e. the labelling head remaining stationary}	3/145	. . . . {the machine being hand- or foot driven}
1/026	. . . {and the article being moved out of its normal conveyance path towards the labelling head (B65C 1/028 takes precedence)}	3/16	. . . . by rolling the labels onto cylindrical containers, e.g. bottles
1/028	. . {the labelling head and the article both being moved towards each other}	3/163	. . . . . {where the label is of the wrap-around type}
1/04	. Affixing labels, e.g. wrap-around labels, to two or more flat surfaces of a polyhedral article	3/166	. . . . . {the label being shrunk after application}
1/042	. . {using two or more applicators, e.g. cooperating rollers or brushes}	3/18	. . to container necks {(B65C 3/065 takes precedence)}
1/045	. . . {acting one after the other}	3/20	. . to bottle closures (applying closures or capsules to bottles B67B)
1/047	. . {by rotating the article about one of its axes}	3/22	. . . Affixing metal foil coverings
3/00	Labelling other than flat surfaces (of fabrics B65C 5/00)	3/24	. . . Affixing labels indicating original state of bottle snap or screw closure
3/02	. Affixing labels to elongated objects, e.g. wires, cables, bars, tubes	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
3/04	. . Applying bands or labels to cigars or cigarettes {(bands for cigars or cigarettes A24D 1/16)}	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)
3/06	. Affixing labels to short rigid containers	5/02	. using adhesives
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)}	5/04	. . Thermo-activatable adhesives
3/08	. . to container bodies {(B65C 3/065 takes precedence)}	5/06	. using staples {(man-operated portable stapling tools B25C 5/00 ; permanently attaching together sheets B42B 4/00)}

- 7/00 Affixing tags (in combination with filling of tea bags [B65B 29/04](#) ; multi-step processes for making labels or tags [B31D 1/02](#))**
- 7/001 . {using pins having at least one sharp pointed end}
- 7/003 . {using paddle-shaped plastic pins (using plastic pins for affixing buttons to garments [A41H 37/008](#))}
- 7/005 . . {Portable tools}
- 7/006 . . . {electrically actuated}
- 7/008 . . . {fluid-actuated}
- 9/00 Details of labelling machines or apparatus**
{(attaching articles to carriers [B65B 15/00](#); cards of samples [G09F 5/04](#))}
- 2009/0003 . {Use of RFID labels}
- 9/0006 . {Removing backing sheets}
- 2009/0009 . . {by means of a peeling tip}
- 2009/0012 . . . {the peeling tip having a variable radius}
- 9/0015 . {Preparing the labels or articles, e.g. smoothing, removing air bubbles}
- 2009/0018 . . {Preparing the labels}
- 2009/0021 . . . {for temporary attachment to transfer means or to the article}
- 2009/0025 {by electrostatic charge}
- 2009/0028 . . . {for activating the glue}
- 2009/0031 {by radiation}
- 2009/0034 {IR}
- 2009/0037 {UV}
- 2009/004 {electron beam}
- 2009/0043 {laser}
- 2009/0046 {by hot air}
- 2009/005 . . . {for reorienting the labels}
- 2009/0053 {by rotation}
- 2009/0056 . . . {removing overlapping labels from backing webs}
- 2009/0059 . . {Preparing the articles}
- 9/0062 . {Interchangeable modules, e.g. applicator heads with label magazines and glue rollers}
- 9/0065 . {Cutting tubular labels from a web}
- 2009/0068 . {Machines or apparatus used with gas bottles}
- 2009/0071 . {Details of glueing devices}
- 2009/0075 . . {Constructional details of glueing rollers}
- 2009/0078 . . {Constructional details of doctor blades}
- 2009/0081 . {Means for forming a label web buffer, e.g. label web loop}
- 2009/0084 . {Means for reversing the transport of label or web for repositioning the next to be dispensed label, e.g. printing}
- 2009/0087 . {Details of handling backing sheets}
- 2009/009 . . {Devices for removing remaining labels from backing strips}
- 2009/0093 . . {Devices switching between a peelable and a non peelable position}
- 2009/0096 . . {Rotation of the backing sheet about its longitudinal axis by passing the backing sheet over a roller}
- 9/02 . Devices for moving articles, e.g. containers, past labelling station
- 9/04 . . having means for rotating the articles
- 9/045 . . . {adapted for accommodating articles of different diameters, e.g. for adapting the program of rotation to the diameter of the articles}
- 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 knives}
- 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}
- 9/1873 {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}

9/2217	. . . . . {discretely, i.e. several points or strips or interrupted films}	11/00	Manually-controlled or manually-operable label dispensers, e.g. modified for the application of labels to articles (special furniture, fittings, or accessories for shops, storehouses, bars, or the like A47F ; for paper napkins, for toilet paper A47K ; for playing cards A63F ; movable-strip writing or reading apparatus B42D 19/00 ; adhesive tape dispensers B65H 35/002 ; dispensers for tickets G07B ; coin-operated dispensers for stamps G07F (; dispensing devices for pamphlets from vehicles G09F 21/22))
9/2221	. . . . . {continuously, i.e. an uninterrupted film}	11/002	. {modified for the application of labels to articles}
9/2226	. . . {using manipulator arms}	11/004	. . {label feeding from strips}
9/223	. . . . {Applying the liquid on the article}	11/006	. {using electrical or electro-mechanical means (B65C 11/0289 and B65C 11/066 take precedence)}
9/2234	. . . . {Applying the liquid on the label}	11/008	. {using pneumatic means (B65C 11/0294 and B65C 11/068 take precedence)}
9/2239	. . . . . {discretely, i.e. several points or strips or interrupted films}	11/02	. having printing equipment
9/2243	. . . . . {continuously, i.e. an uninterrupted film}	11/0205	. . {modified for the application of labels to articles}
9/2247	. . . {using liquid rollers or bands}	11/021	. . . {label feeding from strips}
9/2252	. . . . {Applying the liquid on the article}	11/0215	. . . . {Labels being adhered to a web}
9/2256	. . . . {Applying the liquid on the label}	11/0221	. . . . . {Advancing the web by friction}
9/226	. . . . . {discretely, i.e. several points or strips or interrupted films}	11/0226	. . . . . {electrically driven}
9/2265	. . . . . {continuously, i.e. an uninterrupted film}	11/0231	. . . . . {by actuating a handle manually}
9/2269	. . . . {Means for controlling the liquid film on the rollers}	11/0236	. . . . . {Advancing the web by a cog wheel}
9/2273	. . . {using wipers, pallets or segments (B65C 9/2226 takes precedence)}	11/0242	. . . . . {electrically driven}
9/2278	. . . . {Applying the liquid on the article}	11/0247	. . . . . {by actuating a handle manually}
9/2282	. . . . {Applying the liquid on the label}	11/0252	. . . . . {Advancing the web by grippers}
9/2286	. . . . . {discretely, i.e. several points or strips or interrupted films}	11/0257	. . . . . {electrically driven}
9/2291	. . . . . {continuously, i.e. an uninterrupted film}	11/0263	. . . . . {by actuating a handle manually}
2009/2295	. . . {Applying several tracks of glue or liquid}	11/0268	. . . . . {Advancing the web by winding it up}
9/24	. . by heat	11/0273	. . . . . {electrically driven}
9/25	. . . by thermo-activating the glue	11/0278	. . . . . {by actuating a handle manually}
9/26	. Devices for applying labels	11/0284	. . . . {Linerless labels}
9/262	. . {manually operable}	11/0289	. . {using electrical or electro-mechanical means (B65C 11/0205 takes precedence)}
9/265	. . . {specially adapted for compact discs}	11/0294	. . {using pneumatic means}
2009/267	. . . . {for non-circular shaped compact discs}	11/04	. having means for moistening the labels
9/28	. . Air-blast devices	11/043	. . {modified for the application of labels to articles}
9/30	. . Rollers	11/046	. . . {label feeding from strips}
9/32	. . . Cooperating rollers between which articles and labels are fed	11/06	. having means for heating thermo-activatable labels
9/34	. . Flexible bands	11/062	. . {modified for the application of labels to articles}
9/36	. . Wipers; Pressers	11/064	. . . {label feeding from strips}
9/38	. Label cooling or drying	11/066	. . {using electrical or electro-mechanical means}
9/40	. Controls; Safety devices	11/068	. . {using pneumatic means}
2009/401	. . {for detecting the height of articles to be labelled}	2201/00	Portable tools for labelling or tagging, associated with holders when in use
2009/402	. . {for detecting properties or defects of labels}	2210/00	Details of manually controlled or manually operable label dispensers
2009/404	. . . {prior to labelling}	2210/0002	. Data entry devices
2009/405	. . . . {reading information before printing and applying a label}	2210/0005	. . Readers
2009/407	. . . {after labelling}	2210/0008	. . . Optical scanners
2009/408	. . {reading information before printing and applying a label}	2210/001	. . . Electromagnetical scanners
9/42	. . Label feed control	2210/0013	. . Keyboards; Touchscreens
9/44	. . . by special means responsive to marks on labels or articles (feed control in wrapping B65B)	2210/0016	. . . removable
9/46	. Applying date marks, code marks, or the like, to the label during labelling (manually-controlled or operable apparatus having printing equipment B65C 11/02 ; ticket printing and issuing G07B 1/00 (; apparatus for ticket validating or cancelling G07B 11/00))	2210/0018	. . . permanent
		2210/0021	. . Floppies; Smartcards
		2210/0024	. . Hosts
		2210/0027	. . . permanent connection
		2210/0029	. . . . via cable
		2210/0032	. . . . via RF
		2210/0035	. . . storing into memory

B65C

- 2210/0037 . Printing equipment
- 2210/004 . . using printing heads
- 2210/0043 . . . electrically actuated
- 2210/0045 . . . mechanically actuated, e.g. by a hand lever
- 2210/0048 Means for controlling the force of the printing head
- 2210/0051 . . . Means for applying print to labels
- 2210/0054 Ribbons
- 2210/0056 Inking rollers
- 2210/0059 . . . using several printing heads
- 2210/0062 . . . using color printing heads
- 2210/0064 . . using thermosensitive labels
- 2210/0067 . accommodating labels of different sizes
- 2210/007 . Cutting equipment
- 2210/0072 . Specific details of different parts
- 2210/0075 . . Applying rollers
- 2210/0078 . . Peeling devices
- 2210/0081 . . web brakes
- 2210/0083 . . counters
- 2210/0086 . . platens
- 2210/0089 . . housings
- 2210/0091 . . correction label applying devices
- 2210/0094 . . Label sensing devices
- 2210/0097 . . Predetermining the label length