

# 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.

<b>1/00</b>	<b>Labelling flat essentially-rigid surfaces (labelling of fabrics <a href="#">B65C 5/00</a>)</b>	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 ( <a href="#">B65C 1/028</a> 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 <a href="#">B65C 9/12</a> )}	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 ( <a href="#">B65C 1/028</a> 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 shrunken after application}
1/042	. . {using two or more applicators, e.g. cooperating rollers or brushes}	3/18	. . to container necks {( <a href="#">B65C 3/065</a> takes precedence)}
1/045	. . . {acting one after the other}	3/20	. . to bottle closures (applying closures or capsules to bottles <a href="#">B67B</a> )
1/047	. . {by rotating the article about one of its axes}	3/22	. . . Affixing metal foil coverings
<b>3/00</b>	<b>Labelling other than flat surfaces (of fabrics <a href="#">B65C 5/00</a>)</b>	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 <a href="#">A24D 1/16</a> )}	<b>5/00</b>	<b>Labelling fabrics or comparable materials or articles with deformable surface, e.g. paper, fabric rolls, stockings, shoes (affixing labels to non-rigid containers <a href="#">B65C 3/26</a>; by sewing <a href="#">D05B</a> {; applying marks during shoe manufacture <a href="#">A43D 95/14</a>; marking textile materials by attaching tags <a href="#">D06H 1/04</a>)}</b>
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 <a href="#">B29C 63/18</a> ; applying protective covers to closures <a href="#">B67B 5/03</a> )}	5/04	. . Thermo-activatable adhesives
3/08	. . to container bodies {( <a href="#">B65C 3/065</a> takes precedence)}	5/06	. using staples {(man-operated portable stapling tools <a href="#">B25C 5/00</a> ; permanently attaching together sheets <a href="#">B42B 4/00</a> )}

- 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}
- 9/2221 . . . . . {continuously, i.e. an uninterrupted film}
- 9/2226 . . . {using manipulator arms}
- 9/223 . . . . . {Applying the liquid on the article}
- 9/2234 . . . . . {Applying the liquid on the label}
- 9/2239 . . . . . {discretely, i.e. several points or strips or interrupted films}
- 9/2243 . . . . . {continuously, i.e. an uninterrupted film}
- 9/2247 . . . {using liquid rollers or bands}
- 9/2252 . . . . . {Applying the liquid on the article}
- 9/2256 . . . . . {Applying the liquid on the label}
- 9/226 . . . . . {discretely, i.e. several points or strips or interrupted films}
- 9/2265 . . . . . {continuously, i.e. an uninterrupted film}
- 9/2269 . . . . . {Means for controlling the liquid film on the rollers}
- 9/2273 . . . {using wipers, pallets or segments  
([B65C 9/2226](#) takes precedence)}
- 9/2278 . . . . . {Applying the liquid on the article}
- 9/2282 . . . . . {Applying the liquid on the label}
- 9/2286 . . . . . {discretely, i.e. several points or strips or interrupted films}
- 9/2291 . . . . . {continuously, i.e. an uninterrupted film}
- 2009/2295 . . . {Applying several tracks of glue or liquid}
- 9/24 . . . by heat
- 9/25 . . . by thermo-activating the glue
- 9/26 . . . Devices for applying labels
- 9/262 . . . {manually operable}
- 9/265 . . . {specially adapted for compact discs}
- 2009/267 . . . . . {for non-circular shaped compact discs}
- 9/28 . . . Air-blast devices
- 9/30 . . . Rollers
- 9/32 . . . Cooperating rollers between which articles and labels are fed
- 9/34 . . . Flexible bands
- 9/36 . . . Wipers; Pressers
- 9/38 . . . Label cooling or drying
- 9/40 . . . Controls; Safety devices
- 2009/401 . . . {for detecting the height of articles to be labelled}
- 2009/402 . . . {for detecting properties or defects of labels}
- 2009/404 . . . {prior to labelling}
- 2009/405 . . . . . {reading information before printing and applying a label}
- 2009/407 . . . {after labelling}
- 2009/408 . . . {reading information before printing and applying a label}
- 9/42 . . . Label feed control
- 9/44 . . . by special means responsive to marks on labels or articles ([feed control in wrapping B65B](#))
- 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](#)})
- 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](#)))
  - 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 11/0289](#) and [B65C 11/066](#) take precedence)}
  - 11/008 . . . {using pneumatic means ([B65C 11/0294](#) and [B65C 11/068](#) 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}
- 2201/00 **Portable tools for labelling or tagging, associated with holders when in use**
- 2210/00 **Details of manually controlled or manually operable label dispensers**
  - 2210/0002 . . . Data entry devices
  - 2210/0005 . . . Readers
  - 2210/0008 . . . . . Optical scanners
  - 2210/001 . . . . . Electromagnetical scanners
  - 2210/0013 . . . Keyboards; Touchscreens
  - 2210/0016 . . . . . removable
  - 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