

# 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 shrunk 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> )}   |

|             |  |           |   |
|-------------|--|-----------|---|
| <b>7/00</b> | <b>Affixing tags (in combination with filling of tea bags <a href="#">B65B 29/04</a> {; multi-step processes for making labels or tags <a href="#">B31D 1/02</a>})</b> | 9/06      | . Devices for presenting articles in predetermined attitude or position at labelling station  |
| 7/001       | . {using pins having at least one sharp pointed end}   | 9/062     | . . {for orienting bottles having swing stoppers, i.e. by means responsive to the position of the swing stoppers}   |
| 7/003       | . {using paddle-shaped plastic pins (using plastic pins for affixing buttons to garments <a href="#">A41H 37/008</a> )}  | 9/065     | . . {for orienting articles having irregularities in their shape, the irregularities being detected by mechanical means}  |
| 7/005       | . . {Portable tools}   | 9/067     | . . {for orienting articles having irregularities, e.g. holes, spots or markings, e.g. labels or imprints, the irregularities or markings being detected}   |
| 7/006       | . . . {electrically actuated}  | 9/08      | . Label feeding   |
| 7/008       | . . . {fluid-actuated}   | 9/10      | . . Label magazines   |
| <b>9/00</b> | <b>Details of labelling machines or apparatus {attaching articles to carriers <a href="#">B65B 15/00</a>; cards of samples <a href="#">G09F 5/04</a>}</b>              | 9/105     | . . . {Storage arrangements including a plurality of magazines}   |
| 2009/0003   | . {Use of RFID labels}   | 9/12      | . . Removing separate labels from stacks (for printing <a href="#">B41F</a> ; separating articles from piles in general <a href="#">B65H</a> ){multi-step processes for making labels or tags <a href="#">B31D 1/02</a> ; for printing <a href="#">B41F</a> } |
| 9/0006      | . {Removing backing sheets}  | 9/14      | . . . by vacuum   |
| 2009/0009   | . . {by means of a peeling tip}  | 9/16      | . . . by wetting devices  |
| 2009/0012   | . . . {the peeling tip having a variable radius}   | 9/18      | . . Label feeding from strips, e.g. from rolls  |
| 9/0015      | . {Preparing the labels or articles, e.g. smoothing, removing air bubbles}   | 9/1803    | . . . {the labels being cut from a strip}   |
| 2009/0018   | . . {Preparing the labels}   | 9/1807    | . . . . {and transferred directly from the cutting means to an article}   |
| 2009/0021   | . . . {for temporary attachment to transfer means or to the article}   | 9/1811    | . . . . . {the transfer involving heating means}  |
| 2009/0025   | . . . . {by electrostatic charge}  | 9/1815    | . . . . . {and transferred by suction means}  |
| 2009/0028   | . . . {for activating the glue}  | 9/1819    | . . . . . {the suction means being a vacuum drum}   |
| 2009/0031   | . . . . {by radiation}   | 9/1823    | . . . . . {the transfer involving heating means, e.g. heat activated glue-coating of the label}   |
| 2009/0034   | . . . . . {IR}   | 9/1826    | . . . . . {the suction means being a movable vacuum arm or pad}   |
| 2009/0037   | . . . . . {UV}   | 9/183     | . . . . . {and transferred by gripping means or feeding rollers}  |
| 2009/004    | . . . . . {electron beam}  | 2009/1834 | . . . . . {Details of cutting means}  |
| 2009/0043   | . . . . . {laser}  | 2009/1838 | . . . . . {Cutting drum}  |
| 2009/0046   | . . . . . {by hot air}   | 2009/1842 | . . . . . {Temperature control}   |
| 2009/005    | . . . {for reorienting the labels}   | 2009/1846 | . . . . . {Laser}   |
| 2009/0053   | . . . . {by rotation}  | 2009/1849 | . . . . . {Fluid-jet}   |
| 2009/0056   | . . . {removing overlapping labels from backing webs}  | 2009/1853 | . . . . . {Electrical resistance}   |
| 2009/0059   | . . {Preparing the articles}   | 2009/1857 | . . . . . {two co-acting knives}  |
| 9/0062      | . {Interchangeable modules, e.g. applicator heads with label magazines and glue rollers}   | 2009/1861 | . . . . . {whereby one knife remains stationary}  |
| 9/0065      | . {Cutting tubular labels from a web}  | 9/1865    | . . . {the labels adhering on a backing strip}  |
| 2009/0068   | . {Machines or apparatus used with gas bottles}  | 9/1869    | . . . . {and being transferred directly from the backing strip onto the article}  |
| 2009/0071   | . {Details of glueing devices}   | 9/1873    | . . . . . {the transfer involving heating means, e.g. for decals}   |
| 2009/0075   | . . {Constructional details of glueing rollers}  | 9/1876    | . . . . . {and being transferred by suction means}  |
| 2009/0078   | . . {Constructional details of doctor blades}  | 9/188     | . . . . . {the suction means being a vacuum drum}   |
| 2009/0081   | . {Means for forming a label web buffer, e.g. label web loop}  | 9/1884    | . . . . . {the suction means being a movable vacuum arm or pad}   |
| 2009/0084   | . {Means for reversing the transport of label or web for repositioning the next to be dispensed label, e.g. printing}  | 2009/1888 | . . . . . {Overlapping labels}  |
| 2009/0087   | . {Details of handling backing sheets}   | 9/1892    | . . . {Spools or cassettes for strips (in general <a href="#">B65H 75/00</a> )}   |
| 2009/009    | . . {Devices for removing remaining labels from backing strips}  | 9/1896    | . . . {the labels being torn or burst from a strip}   |
| 2009/0093   | . . {Devices switching between a peelable and a non peelable position}   | 9/20      | . Gluing the labels or articles   |
| 2009/0096   | . . {Rotation of the backing sheet about its longitudinal axis by passing the backing sheet over a roller}   | 9/22      | . . by wetting, e.g. by applying liquid glue or a liquid to a dry glue coating  |
| 9/02        | . Devices for moving articles, e.g. containers, past labelling station   | 9/2204    | . . . {using spraying means}  |
| 9/04        | . . having means for rotating the articles   | 9/2208    | . . . . {Applying the liquid on the article}  |
| 9/045       | . . . {adapted for accommodating articles of different diameters, e.g. for adapting the program of rotation to the diameter of the articles}                           | 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