

# CPC COOPERATIVE PATENT CLASSIFICATION

## B PERFORMING OPERATIONS; TRANSPORTING

(NOTES omitted)

### TRANSPORTING

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

**B65F** **GATHERING OR REMOVAL OF DOMESTIC OR LIKE REFUSE** (disinfecting refuse [A61L](#); refuse disintegrators [B02C](#); sorting refuse [B03B](#); [B07B](#); handcarts for transporting refuse receptacles [B62B](#); sack holders [B65B 67/00](#); converting refuse into fertilisers [C05F](#); converting refuse into solid fuels [C10L](#); sewers, cesspools [E03F](#); arrangements in buildings for the disposal of refuse [E04F 17/10](#); refuse-consuming furnaces [F23G](#); {for surgical articles [A61B 50/36](#)})

#### **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>Refuse receptacles; {Accessories therefor}</b> (containers not specially adapted for refuse, features of refuse receptacles of general interest <a href="#">B65D</a> )      | 1/068  | . . . {with means aiding the removal of the flexible insert}  |
|             |  | 1/08   | . . with rigid inserts  |
| 1/0006      | . {Flexible refuse receptacles, e.g. bags, sacks}  | 1/085  | . . . {with a plurality of rigid inserts}   |
| 1/0013      | . . {with means for fixing and mounting of the receptacle to walls, doors}   | 1/10   | . with refuse filling means, e.g. air-locks   |
| 1/002       | . . {with means for opening or closing of the receptacle}  | 1/105  | . . {the filling means being pneumatic, e.g. using suction}   |
| 1/0026      | . . {with odor controlling substances}   | 1/12   | . with devices facilitating emptying  |
| 1/0033      | . {specially adapted for segregated refuse collecting, e.g. receptacles with several compartments; Combination of receptacles ( <a href="#">B65F 1/0093</a> takes precedence)} | 1/122  | . . {Features allowing the receptacle to be lifted and subsequently tipped by associated means on a vehicle}  |
| 1/004       | . . {the receptacles being divided in compartments by partitions}  | 1/125  | . . {Features allowing the receptacle to be lifted and emptied by its bottom}   |
| 1/0046      | . . . {the partitions being movable, e.g. for varying the volume of the compartments}  | 1/127  | . . {by suction}  |
| 1/0053      | . . {Combination of several receptacles}   | 1/14   | . Other constructional features; {Accessories}(holders or carriers for hand articles <a href="#">A45F 5/00</a> ; fastening devices <a href="#">E05C</a> ) |
| 1/006       | . . . {Rigid receptacles stored in an enclosure or forming part of it}   | 1/1405 | . . {Compressing means incorporated in, or specially adapted for, refuse receptacles (presses in general <a href="#">B30B</a> )}                          |
| 1/0066      | . . . {Rigid receptacles fixed on racks or posts}  | 1/141  | . . {Supports, racks, stands, posts or the like for holding refuse receptacles ( <a href="#">B65F 1/0066</a> takes precedence)}                           |
| 1/0073      | . . . {Flexible receptacles fixed on a frame or in an enclosure ( <a href="#">sack holders per se B65B 67/12</a> )}  | 1/1415 | . . . {for flexible receptacles, e.g. bags, sacks}  |
| 2001/008    | . . {Means for automatically selecting the receptacle in which refuse should be placed}  | 1/1421 | . . . {having means for operating lids or covers (pedal or hand-lever operated <a href="#">B65D</a> )}  |
| 2001/0086   | . . {Means for holding receptacles together}   | 1/1426 | . . {Housings, cabinets or enclosures for refuse receptacles ( <a href="#">B65F 1/006</a> , <a href="#">B65F 1/1452</a> take precedence)}                 |
| 1/0093      | . {specially adapted for collecting refuse from arrangements in buildings}   | 1/1431 | . . . {having a waste disposal chute integrally connected to a work top or the like, the refuse receptacle remaining static}                              |
| 1/02        | . without removable inserts  | 1/1436 | . . . {having a waste receptacle withdrawn upon opening of the enclosure}   |
| 1/04        | . with removable inserts   | 1/1442 | . . . . {the receptacle being rotated about a vertical axis}  |
| 1/06        | . . with flexible inserts, e.g. bags or sacks {( <a href="#">B65F 1/0073</a> takes precedence)}  | 1/1447 | . . . {located underground}   |
| 2001/061    | . . . {the flexible inserts being used shopping bags}  |        |   |
| 1/062       | . . . {having means for storing or dispensing spare bags}  |        |   |
| 1/065       | . . . {with means aiding the insertion of the flexible insert}   |        |   |
| 1/067       | . . . {with a plurality of flexible inserts}   |        |   |

- 1/1452 . . {Lifting, hoisting, elevating mechanisms or the like for refuse receptacles ([lifting in general B66](#))}
- 1/1457 . . . {for refuse receptacles located underground}
- 1/1463 . . {Receptacles adapted to store one or more piles of used stackable containers, e.g. beverage cups}
- 1/1468 . . {Means for facilitating the transport of the receptacle, e.g. wheels, rolls ([hand-operated refuse vehicles B65F 3/005](#))}
- 1/1473 . . . {Receptacles having wheels}
- 1/1478 . . {relating to noise reduction in receptacles during collecting of refuse, e.g. of glass}
- 1/1484 . . {relating to the adaptation of receptacles to carry identification means}
- 2001/1489 . . {Refuse receptacles adapted or modified for gathering compostable domestic refuse}
- 2001/1494 . . {Refuse receptacles comprising means for preventing or extinguishing fire}
- 1/16 . . Lids or covers ([B65F 1/1421 takes precedence](#)); pedal or hand-lever operated {for containers in general} [B65D](#))
- 1/1607 . . . {with filling openings}
- 1/1615 . . . {with means for locking, fastening or permanently closing thereof}
- 1/1623 . . . {with means for assisting the opening or closing thereof, e.g. springs ([spring-actuated swinging wings E05F 1/10](#))}
- 1/163 . . . . {Pedal-operated lids}
- 1/1638 . . . . {Electromechanically operated lids}
- 1/1646 . . . {provided with means for mounting on receptacles, e.g. hinges}
- 2001/1653 . . {Constructional features of lids or covers}
- 2001/1661 . . . {relating to noise reduction, e.g. during opening or closing}
- 2001/1669 . . . {relating to means for fixing or latching the lid or cover in a certain angle}
- 2001/1676 . . . {relating to means for sealing the lid or cover, e.g. against escaping odors}
- 2001/1684 . . . . {Water slot seals}
- 2001/1692 . . . {relating to safety means, e.g. for children trapped inside the refuse receptacle}
- 3/00** **Vehicles particularly adapted for collecting refuse (vehicles in general [B60](#); driving vehicle equipment or auxiliaries [B60K](#); discharging contents by tilting entire vehicles [B65G](#); wheeled apparatus for emptying sewers or cesspools [E03F 7/10](#))**
- 3/001 . . {for segregated refuse collecting, e.g. vehicles with several compartments}
- 2003/003 . . {Footboards}
- 3/005 . . {Hand-operated refuse vehicles}
- 2003/006 . . {Constructional features relating to the tank of the refuse vehicle}
- 2003/008 . . {interchangeable}
- 3/02 . . with means for discharging refuse receptacles thereinto ([conveyor construction B65G](#); [loaders separate from vehicles B66F](#); [fluid power control systems in general F15B](#))
- 3/0203 . . {with crane-like mechanisms}
- 3/0206 . . {while the receptacles remain in place or are still attached to their supporting means}
- 3/0209 . . . {using suction}
- 3/0213 . . {Means for facilitating the separation of discharging means from collecting vehicles}
- 2003/0216 . . {the discharging means comprising a device for determining the volume of the content of refuse receptacles}
- 2003/022 . . {the discharging means comprising a device for determining the weight of the content of refuse receptacles}
- 2003/0223 . . {the discharging means comprising elements for holding the receptacle}
- 2003/0226 . . . {having means for adapting to different sized receptacles}
- 2003/023 . . . {Gripper arms for embracing the receptacle}
- 2003/0233 . . . . {for embracing two or more receptacles}
- 2003/0236 . . . {Suction or vacuum heads}
- 2003/024 . . . {Means for locking the rim}
- 2003/0243 . . . {Means for locking the side, e.g. via spigots or trunnion pins}
- 2003/0246 . . . {Means for locking the front, e.g. via a handle}
- 2003/025 . . {Constructional features relating to actuating means for lifting or tipping containers}
- 2003/0253 . . . {Means for synchronising or coupling two or more discharging devices, e.g. for allowing the discharge of one large container or the simultaneous discharge of two or more containers}
- 2003/0256 . . . {Means for vibrating or shaking the containers for facilitating emptying}
- 2003/0259 . . . {Means for automatically varying the speed of operation}
- 2003/0263 . . {Constructional features relating to discharging means}
- 2003/0266 . . . {comprising at least one telescopic arm}
- 2003/0269 . . . {capable of moving along the side of the vehicle}
- 2003/0273 . . . {capable of rotating around a vertical axis}
- 2003/0276 . . . {capable of moving towards or away from the vehicle}
- 2003/0279 . . . {the discharging means mounted at the front of the vehicle}
- 2003/0283 . . . . {between the cab and the collection compartment}
- 2003/0286 . . {Means mounted on the vehicle for opening the lid or cover of the receptacle}
- 2003/0289 . . . {the opening means being mounted on the discharging means}
- 2003/0293 . . {Means mounted on the vehicle for supporting the refuse receptacle in the tipping position}
- 2003/0296 . . . {the supporting means mounted on the discharging means}
- 3/04 . . Linkages, pivoted arms, or pivoted carriers for raising and subsequently tipping receptacles
- 3/041 . . . {Pivoted arms or pivoted carriers}
- 3/043 . . . . {with additional means for keeping the receptacle substantially vertical during raising}
- 3/045 . . . . . {Four-bar linkages}
- 3/046 . . . . {with additional means for assisting the tipping of the receptacle after or during raising}
- 3/048 . . . {Linkages ([B65F 3/041 takes precedence](#))}
- 3/06 . . . Arrangement and disposition of fluid actuators
- 3/08 . . Platform elevators or hoists with guides or runways for raising or tipping receptacles ([pivotable guides or runways B65F 3/041](#))}
- 3/10 . . . Arrangement and disposition of fluid actuators

## B65F

- 3/12 . . Conjoint motion of lids, flaps, and shutters on vehicle and on receptacle; Operation of closures on vehicle conjointly with tipping of receptacle
- 3/14 . with devices for charging, distributing or compressing refuse in the interior of the tank of a refuse vehicle ([B65F 3/02 takes precedence](#))
- 3/143 . . {Means facilitating the separation of the charging, distributing or compressing devices from the tank of refuse vehicles}
- 2003/146 . . {Sensors, e.g. pressure sensors}
- 3/16 . . with conveyor wheels ([with screw conveyors B65F 3/22](#))
- 3/18 . . with endless conveyors, e.g. elevators
- 3/20 . . with charging pistons, plates, or the like ([for discharging B65F 3/28](#))
- 3/201 . . . {the charging pistons, plates or the like moving rectilinearly}
- 3/202 . . . {with radially shiftable charging plates or the like mounted on a rotary drum}
- 3/203 . . . {with charging teeth, cutters or the like mounted on an axle or a drum ([B65F 3/202](#), [B65F 3/205](#), [B65F 3/206 take precedence](#))}
- 3/205 . . . {with two or more movable and co-operating plates or the like for charging refuse from the loading hopper to the interior of a refuse vehicle}
- 3/206 . . . {with charging plates or the like rotating around a vertical axis}
- 3/207 . . . {guided by tracks, channels, slots or the like provided on the vehicle}
- 3/208 . . . {the charging pistons, plates or the like oscillating about a horizontal axis}
- 3/22 . . with screw conveyors, rotary tanks
- 3/225 . . . {Tanks rotating about a transversal axis for compressing the garbage by gravity}
- 3/24 . with devices for unloading the tank of a refuse vehicle
- 3/26 . . by tipping the tank
- 3/28 . . by a lengthwise movement of a wall, e.g. a plate, a piston, or the like ([for charging B65F 3/20](#))
- 5/00 Gathering or removal of refuse otherwise than by receptacles or vehicles (storage silos, charging and discharging thereof [B65G](#))**
- 5/005 . {by pneumatic means, e.g. by suction (conveying materials in bulk pneumatically in general [B65G 53/04](#))}
- 7/00 Cleaning or disinfecting devices combined with refuse receptacles or refuse vehicles (such devices [per se A61L](#), [B08B](#))**
- 7/005 . {Devices, mounted on refuse collecting vehicles, for cleaning or disinfecting refuse receptacles}
- 9/00 Transferring of refuse between vehicles or containers with intermediate storage or pressing (presses for baling [per se B30B 9/30](#))**
- 2210/00 Equipment of refuse receptacles**
- 2210/102 . Absorbing means
- 2210/1023 . . for liquids
- 2210/1026 . . for smelling substances
- 2210/104 . Ashtrays
- 2210/108 . Authorization means
- 2210/1085 . . Coins or tokens
- 2210/112 . Coding means to aid in recycling
- 2210/1121 . . Apertures
- 2210/1123 . . Bar-codes
- 2210/1125 . . Colors
- 2210/1126 . . Symbols
- 2210/1128 . . Text
- 2210/116 . Cooling means
- 2210/12 . Crushing means
- 2210/124 . Counting means
- 2210/126 . Cutting means
- 2210/128 . Data transmitting means
- 2210/129 . Deodorizing means
- 2210/13 . Double walls
- 2210/132 . Draining means
- 2210/135 . Flower boxes
- 2210/136 . Dustpan
- 2210/137 . Fans
- 2210/138 . Identification means
- 2210/139 . Illuminating means
- 2210/14 . Incinerating means
- 2210/144 . Level detecting means
- 2210/1443 . . Electrical
- 2210/1446 . . Mechanical
- 2210/148 . Locking means
- 2210/15 . Marking means
- 2210/152 . Material detecting means
- 2210/1522 . . for glass
- 2210/1525 . . for metal
- 2210/1527 . . for plastics
- 2210/156 . Mousetraps
- 2210/16 . Music playing devices
- 2210/162 . Pressing means
- 2210/164 . Printers
- 2210/165 . Remote controls
- 2210/167 . Sealing means
- 2210/1675 . . by twisting, e.g. of a flexible tube
- 2210/168 . Sensing means
- 2210/169 . Shredding means
- 2210/17 . Smoke detecting means
- 2210/172 . Solar cells
- 2210/176 . Sorting means
- 2210/178 . Steps
- 2210/179 . Suction means, e.g. for forcing a bag inside the receptacle
- 2210/1795 . . for sucking off dust particles during insertion of refuse in the receptacle
- 2210/18 . Suspending means
- 2210/181 . Ventilating means, e.g. holes
- 2210/1815 . . for assisting the removal of a liner
- 2210/182 . Volume determining means
- 2210/183 . Volume reducing means, e.g. inserts
- 2210/184 . Weighing means
- 2210/188 . Vacuum drawing means
- 2210/196 . Tape dispensers
- 2210/20 . Temperature sensing means
- 2220/00 Properties of refuse receptacles**
- 2220/101 . assembled from a plurality of panels
- 2220/102 . assembled from a blank
- 2220/104 . Bomb resistant
- 2220/106 . Collapsible
- 2220/1063 . . foldable

**B65F**

- 2220/1066 . . telescopic
- 2220/108 . connectable
- 2220/112 . floatable
- 2220/116 . inflatable
- 2220/12 . nestable
- 2220/122 . Poster resistant surface
- 2220/124 . stackable
- 2220/128 . transparent

**2230/00 Shapes of refuse receptacles**

- 2230/104 . Amphora
- 2230/108 . Animal
- 2230/112 . Bottle
- 2230/116 . Can
- 2230/12 . Fence
- 2230/124 . Golf ball
- 2230/126 . Hexagonal
- 2230/127 . House
- 2230/128 . Human
- 2230/132 . Mushroom
- 2230/134 . Oval
- 2230/135 . Potted plant
- 2230/136 . Pyramide
- 2230/14 . Robot
- 2230/144 . Seat
- 2230/148 . Sleeve
- 2230/15 . Sleeve having a disconnectable bottom
- 2230/152 . Triangular
- 2230/156 . Wave-like

**2240/00 Types of refuse collected**

- 2240/104 . Ashes
- 2240/108 . Batteries
- 2240/112 . Bottles
- 2240/1123 . . Glass
- 2240/1126 . . Plastics
- 2240/116 . Broken cutters
- 2240/118 . Building waste
- 2240/12 . Cans
- 2240/121 . Carrions
- 2240/122 . CD's, DVD's
- 2240/124 . Christmas trees
- 2240/128 . Clothing
- 2240/132 . Diapers
- 2240/136 . Dog dirt
- 2240/137 . Drilling dust
- 2240/138 . Garden debris
- 2240/14 . Gum
- 2240/142 . Grease
- 2240/143 . Ink cartridges
- 2240/144 . Leather
- 2240/145 . Medicine
- 2240/146 . Nails
- 2240/148 . Neon tubes
- 2240/152 . Oil
- 2240/156 . Paper
- 2240/1562 . . confidential
- 2240/1564 . . Carton
- 2240/1566 . . handkerchiefs
- 2240/1568 . . Towels
- 2240/16 . Pizza boxes
- 2240/162 . Pressurized containers

- 2240/164 . Sanitary towels
- 2240/166 . Staples
- 2240/168 . Telephone cards
- 2240/172 . Vomit

**2250/00 Materials of refuse receptacles**

- 2250/105 . Biodegradable
- 2250/106 . Carton
- 2250/107 . Glass
- 2250/108 . Paper
- 2250/11 . Metal
- 2250/111 . . Aluminum
- 2250/112 . . Steel
- 2250/114 . Plastics
- 2250/1143 . . Polyethylene
- 2250/1146 . . Polypropylene
- 2250/116 . Recycled material
- 2250/12 . Rubber
- 2250/128 . Wood