

# 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> )	<b>1/068</b>	. . . {with means aiding the removal of the flexible insert}
<b>1/0006</b>	. {Flexible refuse receptacles, e.g. bags, sacks}	<b>1/08</b>	. . with rigid inserts
<b>1/0013</b>	. . {with means for fixing and mounting of the receptacle to walls, doors}	<b>1/085</b>	. . . {with a plurality of rigid inserts}
<b>1/002</b>	. . {with means for opening or closing of the receptacle}	<b>1/10</b>	. with refuse filling means, e.g. air-locks
<b>1/0026</b>	. . {with odor controlling substances}	<b>1/105</b>	. . {the filling means being pneumatic, e.g. using suction}
<b>1/0033</b>	. {specially adapted for segregated refuse collecting, e.g. receptacles with several compartments; Combination of receptacles ( <a href="#">B65F 1/0093</a> takes precedence)}	<b>1/12</b>	. with devices facilitating emptying
<b>1/004</b>	. . {the receptacles being divided in compartments by partitions}	<b>1/122</b>	. . {Features allowing the receptacle to be lifted and subsequently tipped by associated means on a vehicle}
<b>1/0046</b>	. . . {the partitions being movable, e.g. for varying the volume of the compartments}	<b>1/125</b>	. . {Features allowing the receptacle to be lifted and emptied by its bottom}
<b>1/0053</b>	. . {Combination of several receptacles}	<b>1/127</b>	. . {by suction}
<b>1/006</b>	. . . {Rigid receptacles stored in an enclosure or forming part of it}	<b>1/14</b>	. Other constructional features; {Accessories} (holders or carriers for hand articles <a href="#">A45F 5/00</a> ; fastening devices <a href="#">E05C</a> )
<b>1/0066</b>	. . . {Rigid receptacles fixed on racks or posts}	<b>1/1405</b>	. . {Compressing means incorporated in, or specially adapted for, refuse receptacles (presses in general <a href="#">B30B</a> )}
<b>1/0073</b>	. . . {Flexible receptacles fixed on a frame or in an enclosure (sack holders <i>per se</i> <a href="#">B65B 7/12</a> )}	<b>1/141</b>	. . {Supports, racks, stands, posts or the like for holding refuse receptacles ( <a href="#">B65F 1/0066</a> takes precedence)}
<b>2001/008</b>	. . {Means for automatically selecting the receptacle in which refuse should be placed}	<b>1/1415</b>	. . . {for flexible receptables, e.g. bags, sacks}
<b>2001/0086</b>	. . {Means for holding receptacles together}	<b>1/1421</b>	. . . {having means for operating lids or covers (pedal or hand-lever operated <a href="#">B65D</a> )}
<b>1/0093</b>	. {specially adapted for collecting refuse from arrangements in buildings}	<b>1/1426</b>	. . {Housings, cabinets or enclosures for refuse receptacles ( <a href="#">B65F 1/006</a> , <a href="#">B65F 1/1452</a> take precedence)}
<b>1/02</b>	. without removable inserts	<b>1/1431</b>	. . . {having a waste disposal chute integrally connected to a work top or the like, the refuse receptacle remaining static}
<b>1/04</b>	. with removable inserts	<b>1/1436</b>	. . . {having a waste receptacle withdrawn upon opening of the enclosure}
<b>1/06</b>	. . with flexible inserts, e.g. bags or sacks {( <a href="#">B65F 1/0073</a> takes precedence)}	<b>1/1442</b>	. . . . {the receptacle being rotated about a vertical axis}
<b>2001/061</b>	. . . {the flexible inserts being used shopping bags}	<b>1/1447</b>	. . . {located underground}
<b>1/062</b>	. . . {having means for storing or dispensing spare bags}		
<b>1/065</b>	. . . {with means aiding the insertion of the flexible insert}		
<b>1/067</b>	. . . {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 ([pivotal guides or runways B65F 3/041](#))}
- 3/10 . . . Arrangement and disposition of fluid actuators

3/12	. . Conjoint motion of lids, flaps, and shutters on vehicle and on receptacle; Operation of closures on vehicle conjointly with tipping of receptacle	2210/112	. Coding means to aid in recycling
3/14	. with devices for charging, distributing or compressing refuse in the interior of the tank of a refuse vehicle ( <a href="#">B65F 3/02 takes precedence</a> )	2210/1121	. . Apertures
3/143	. . {Means facilitating the separation of the charging, distributing or compressing devices from the tank of refuse vehicles}	2210/1123	. . Bar-codes
2003/146	. . {Sensors, e.g. pressure sensors}	2210/1125	. . Colors
3/16	. . with conveyor wheels ( <a href="#">with screw conveyors B65F 3/22</a> )	2210/1126	. . Symbols
3/18	. . with endless conveyors, e.g. elevators	2210/1128	. . Text
3/20	. . with charging pistons, plates, or the like ( <a href="#">for discharging B65F 3/28</a> )	2210/116	. Cooling means
3/201	. . . {the charging pistons, plates or the like moving rectilinearly}	2210/12	. Crushing means
3/202	. . . {with radially shiftable charging plates or the like mounted on a rotary drum}	2210/124	. Counting means
3/203	. . . {with charging teeth, cutters or the like mounted on an axle or a drum ( <a href="#">B65F 3/202</a> , <a href="#">B65F 3/205</a> , <a href="#">B65F 3/206 take precedence</a> )}	2210/126	. Cutting means
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}	2210/128	. Data transmitting means
3/206	. . . {with charging plates or the like rotating around a vertical axis}	2210/129	. Deodorizing means
3/207	. . . {guided by tracks, channels, slots or the like provided on the vehicle}	2210/13	. Double walls
3/208	. . . {the charging pistons, plates or the like oscillating about a horizontal axis}	2210/132	. Draining means
3/22	. . with screw conveyors, rotary tanks	2210/135	. Flower boxes
3/225	. . . {Tanks rotating about a transversal axis for compressing the garbage by gravity}	2210/136	. Dustpan
3/24	. with devices for unloading the tank of a refuse vehicle	2210/137	. Fans
3/26	. . by tipping the tank	2210/138	. Identification means
3/28	. . by a lengthwise movement of a wall, e.g. a plate, a piston, or the like ( <a href="#">for charging B65F 3/20</a> )	2210/139	. Illuminating means
5/00	<b>Gathering or removal of refuse otherwise than by receptacles or vehicles (<a href="#">storage silos, charging and discharging thereof B65G</a>)</b>	2210/14	. Incinerating means
5/005	. {by pneumatic means, e.g. by suction ( <a href="#">conveying materials in bulk pneumatically in general B65G 53/04</a> )}	2210/144	. Level detecting means
7/00	<b>Cleaning or disinfecting devices combined with refuse receptacles or refuse vehicles (<a href="#">such devices per se A61L</a>, <a href="#">B08B</a>)</b>	2210/1443	. . Electrical
7/005	. {Devices, mounted on refuse collecting vehicles, for cleaning or disinfecting refuse receptacles}	2210/1446	. . Mechanical
9/00	<b>Transferring of refuse between vehicles or containers with intermediate storage or pressing (<a href="#">presses for baling per se B30B 9/30</a>)</b>	2210/148	. Locking means
2210/00	<b>Equipment of refuse receptacles</b>	2210/15	. Marking means
2210/102	. Absorbing means	2210/152	. Material detecting means
2210/1023	. . for liquids	2210/1522	. . for glass
2210/1026	. . for smelling substances	2210/1525	. . for metal
2210/104	. Ashtrays	2210/1527	. . for plastics
2210/108	. Authorization means	2210/156	. Mousetraps
2210/1085	. . Coins or tokens	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	<b>Properties of refuse receptacles</b>
		2220/101	. assembled from a plurality of panels
		2220/102	. assembled from a blank
		2220/104	. Bomb resistant
		2220/106	. Collapsible
		2220/1063	. . foldable

- 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