

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](#)})

1/00	Refuse receptacles; {Accessories therefor} (containers not specially adapted for refuse, features of refuse receptacles of general interest B65D)	1/10	. with refuse filling means, e.g. air-locks
1/0006	. {Flexible refuse receptables, e.g. bags, sacks}	1/105	. . {the filling means being pneumatic, e.g. using suction}
1/0013	. . {with means for fixing and mounting of the receptacle to walls, doors}	1/12	. with devices facilitating emptying
1/002	. . {with means for opening or closing of the receptacle}	1/122	. . {Features allowing the receptacle to be lifted and subsequently tipped by associated means on a vehicle}
1/0026	. . {with odor controlling substances}	1/125	. . {Features allowing the receptacle to be lifted and emptied by its bottom}
1/0033	. {specially adapted for segregated refuse collecting, e.g. receptacles with several compartments; Combination of receptacles (B65F 1/0093 takes precedence)}	1/127	. . {by suction}
1/004	. . {the receptacles being divided in compartments by partitions}	1/14	. Other constructional features; {Accessories} (holders or carriers for hand articles A45F 5/00 ; fastening devices E05C)
1/0046	. . . {the partitions being movable, e.g. for varying the volume of the compartments}	1/1405	. . {Compressing means incorporated in, or specially adapted for, refuse receptacles (presses in general B30B)}
1/0053	. . {Combination of several receptacles}	1/141	. . {Supports, racks, stands, posts or the like for holding refuse receptacles (B65F 1/0066 takes precedence)}
1/006	. . . {Rigid receptacles stored in an enclosure or forming part of it}	1/1415	. . . {for flexible receptables, e.g. bags, sacks}
1/0066	. . . {Rigid receptacles fixed on racks or posts}	1/1421	. . . {having means for operating lids or covers (pedal or hand-lever operated B65D)}
1/0073	. . . {Flexible receptacles fixed on a frame or in an enclosure (sack holders <i>per se</i> B65B 7/12)}	1/1426	. . {Housings, cabinets or enclosures for refuse receptacles (B65F 1/006 , B65F 1/1452 take precedence)}
2001/008	. . {Means for automatically selecting the receptacle in which refuse should be placed}	1/1431	. . . {having a waste disposal chute integrally connected to a work top or the like, the refuse receptacle remaining static}
2001/0086	. . {Means for holding receptacles together}	1/1436	. . . {having a waste receptacle withdrawn upon opening of the enclosure}
1/0093	. {specially adapted for collecting refuse from arrangements in buildings}	1/1442 {the receptacle being rotated about a vertical axis}
1/02	. without removable inserts	1/1447	. . . {located underground}
1/04	. with removable inserts	1/1452	. . {Lifting, hoisting, elevating mechanisms or the like for refuse receptacles (lifting in general B66)}
1/06	. . with flexible inserts, e.g. bags or sacks { B65F 1/0073 takes precedence}	1/1457	. . . {for refuse receptacles located underground}
2001/061	. . . {the flexible inserts being used shopping bags}	1/1463	. . {Receptacles adapted to store one or more piles of used stackable containers, e.g. beverage cups}
1/062	. . . {having means for storing or dispensing spare bags}	1/1468	. . {Means for facilitating the transport of the receptacle, e.g. wheels, rolls (hand-operated refuse vehicles B65F 3/005)}
1/065	. . . {with means aiding the insertion of the flexible insert}	1/1473	. . . {Receptacles having wheels}
1/067	. . . {with a plurality of flexible inserts}		
1/068	. . . {with means aiding the removal of the flexible insert}		
1/08	. . with rigid inserts		
1/085	. . . {with a plurality of rigid inserts}		

- 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
- 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
- 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**

B65F

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

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

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