

CPC**COOPERATIVE PATENT CLASSIFICATION****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 19/0287](#)})

B65F 1/00

Refuse receptacles; {Accessories therefor} (containers not specially adapted for refuse, features of refuse receptacles of general interest [B65D](#))

- B65F 1/0006 . {Flexible refuse receptacles, e.g. bags, sacks}
- B65F 1/0013 . . {with means for fixing and mounting of the receptacle to walls, doors}
- B65F 1/002 . . {with means for opening or closing of the receptacle}
- B65F 1/0026 . . {with odor controlling substances}
- B65F 1/0033 . {specially adapted for segregated refuse collecting, e.g. receptacles with several compartments; Combination of receptacles ([B65F 1/0093](#) takes precedence)}
- B65F 1/004 . . {the receptacles being divided in compartments by partitions}
- B65F 1/0046 . . . {the partitions being movable, e.g. for varying the volume of the compartments}
- B65F 1/0053 . . {Combination of several receptacles}
- B65F 1/006 . . . {Rigid receptacles stored in an enclosure or forming part of it}
- B65F 1/0066 . . . {Rigid receptacles fixed on racks or posts}
- B65F 1/0073 . . . {Flexible receptacles fixed on a frame or in an enclosure ([sack holders per se B65B 7/12](#))}
- B65F 2001/008 . . {Means for automatically selecting the receptacle in which refuse should be placed}
- B65F 2001/0086 . . {Means for holding receptacles together}
- B65F 1/0093 . {specially adapted for collecting refuse from arrangements in buildings}
- B65F 1/02 . without removable inserts
- B65F 1/04 . with removable inserts
- B65F 1/06 . . with flexible inserts, e.g. bags or sacks {([B65F 1/0073](#) takes precedence)}
- B65F 2001/061 . . . {the flexible inserts being used shopping bags}
- B65F 1/062 . . . {having means for storing or dispensing spare bags}
- B65F 1/065 . . . {with means aiding the insertion of the flexible insert}
- B65F 1/067 . . . {with a plurality of flexible inserts}
- B65F 1/068 . . . {with means aiding the removal of the flexible insert}
- B65F 1/08 . . with rigid inserts
- B65F 1/085 . . . {with a plurality of rigid inserts}
- B65F 1/10 . with refuse filling means, e.g. air-locks

- B65F 1/105
 - • {the filling means being pneumatic, e.g. using suction}
- B65F 1/12
 - with devices facilitating emptying
- B65F 1/122
 - • {Features allowing the receptacle to be lifted and subsequently tipped by associated means on a vehicle}
- B65F 1/125
 - • {Features allowing the receptacle to be lifted and emptied by its bottom}
- B65F 1/127
 - • {by suction}
- B65F 1/14
 - Other constructional features; {Accessories} (holders or carriers for hand articles [A45F 5/00](#); fastening devices [E05C](#))
- B65F 1/1405
 - • {Compressing means incorporated in, or specially adapted for, refuse receptacles (presses in general [B30B](#))}
- B65F 1/141
 - • {Supports, racks, stands, posts or the like for holding refuse receptacles ([B65F 1/0066](#) takes precedence)}
- B65F 1/1415
 - • • {for flexible receptables, e.g. bags, sacks}
- B65F 1/1421
 - • • {having means for operating lids or covers (pedal or hand-lever operated [B65D](#))}
- B65F 1/1426
 - • {Housings, cabinets or enclosures for refuse receptacles ([B65F 1/006](#), [B65F 1/1452](#) take precedence)}
- B65F 1/1431
 - • • {having a waste disposal chute integrally connected to a work top or the like, the refuse receptacle remaining static}
- B65F 1/1436
 - • • {having a waste receptacle withdrawn upon opening of the enclosure}
- B65F 1/1442
 - • • • {the receptacle being rotated about a vertical axis}
- B65F 1/1447
 - • • {located underground}
- B65F 1/1452
 - • {Lifting, hoisting, elevating mechanisms or the like for refuse receptacles (lifting in general [B66](#))}
- B65F 1/1457
 - • • {for refuse receptacles located underground}
- B65F 1/1463
 - • {Receptacles adapted to store one or more piles of used stackable containers, e.g. beverage cups}
- B65F 1/1468
 - • {Means for facilitating the transport of the receptacle, e.g. wheels, rolls (hand-operated refuse vehicles [B65F 3/005](#))}
- B65F 1/1473
 - • • {Receptacles having wheels}
- B65F 1/1478
 - • {relating to noise reduction in receptacles during collecting of refuse, e.g. of glass}
- B65F 1/1484
 - • {relating to the adaptation of receptacles to carry identification means}
- B65F 2001/1489
 - • {Refuse receptacles adapted or modified for gathering compostable domestic refuse}
- B65F 2001/1494
 - • {Refuse receptacles comprising means for preventing or extinguishing fire}
- B65F 1/16
 - • Lids or covers ({[B65F 1/1421](#) takes precedence}; pedal or hand-lever operated {for containers in general} [B65D](#))
- B65F 1/1607
 - • • {with filling openings}
- B65F 1/1615
 - • • {with means for locking, fastening or permanently closing thereof}
- B65F 1/1623
 - • • {with means for assisting the opening or closing thereof, e.g. springs (spring-actuated swinging wings [E05F 1/10](#))}
- B65F 1/163
 - • • • {Pedal-operated lids}
- B65F 1/1638
 - • • • {Electromechanically operated lids}

- B65F 1/1646 . . . {provided with means for mounting on receptacles, e.g. hinges}
- B65F 2001/1653 . . {Constructional features of lids or covers}
- B65F 2001/1661 . . . {relating to noise reduction, e.g. during opening or closing}
- B65F 2001/1669 . . . {relating to means for fixing or latching the lid or cover in a certain angle}
- B65F 2001/1676 . . . {relating to means for sealing the lid or cover, e.g. against escaping odors}
- B65F 2001/1684 {Water slot seals}
- B65F 2001/1692 . . . {relating to safety means, e.g. for children trapped inside the refuse receptacle}

B65F 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](#))

- B65F 3/001 . {for segregated refuse collecting, e.g. vehicles with several compartments}
- B65F 2003/003 . . {Footboards}
- B65F 3/005 . {Hand-operated refuse vehicles}
- B65F 2003/006 . {Constructional features relating to the tank of the refuse vehicle}
- B65F 2003/008 . . {interchangeable}
- B65F 3/02 . with means for discharging refuse receptacles thereinto (conveyer construction [B65G](#); Loaders separate from vehicles [B66F](#); fluid power control systems in general [F15B](#))
- B65F 3/0203 . . {with crane-like mechanisms}
- B65F 3/0206 . . {while the receptacles remain in place or are still attached to their supporting means}
- B65F 3/0209 . . . {using suction}
- B65F 3/0213 . . {Means for facilitating the separation of discharging means from collecting vehicles}
- B65F 2003/0216 . . {the discharging means comprising a device for determining the volume of the content of refuse receptacles}
- B65F 2003/022 . . {the discharging means comprising a device for determining the weight of the content of refuse receptacles}
- B65F 2003/0223 . . {the discharging means comprising elements for holding the receptacle}
- B65F 2003/0226 . . . {having means for adapting to different sized receptacles}
- B65F 2003/023 . . . {Gripper arms for embracing the receptacle}
- B65F 2003/0233 {for embracing two or more receptacles}
- B65F 2003/0236 . . . {Suction or vacuum heads}
- B65F 2003/024 . . . {Means for locking the rim}
- B65F 2003/0243 . . . {Means for locking the side, e.g. via spigots or trunnion pins}
- B65F 2003/0246 . . . {Means for locking the front, e.g. via a handle}
- B65F 2003/025 . . {Constructional features relating to actuating means for lifting or tipping containers}
- B65F 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}

B65F 2003/0256	. . . {Means for vibrating or shaking the containers for facilitating emptying}
B65F 2003/0259	. . . {Means for automatically varying the speed of operation}
B65F 2003/0263	. . {Constructional features relating to discharging means}
B65F 2003/0266	. . . {comprising at least one telescopic arm}
B65F 2003/0269	. . . {capable of moving along the side of the vehicle}
B65F 2003/0273	. . . {capable of rotating around a vertical axis}
B65F 2003/0276	. . . {capable of moving towards or away from the vehicle}
B65F 2003/0279	. . . {the discharging means mounted at the front of the vehicle}
B65F 2003/0283 {between the cab and the collection compartment}
B65F 2003/0286	. . {Means mounted on the vehicle for opening the lid or cover of the receptacle}
B65F 2003/0289	. . . {the opening means being mounted on the discharging means}
B65F 2003/0293	. . {Means mounted on the vehicle for supporting the refuse receptacle in the tipping position}
B65F 2003/0296	. . . {the supporting means mounted on the discharging means}
B65F 3/04	. . Linkages, pivoted arms, or pivoted carriers for raising and subsequently tipping receptacles
B65F 3/041	. . . {Pivoted arms or pivoted carriers}
B65F 3/043 {with additional means for keeping the receptacle substantially vertical during raising}
B65F 3/045 {Four-bar linkages}
B65F 3/046 {with additional means for assisting the tipping of the receptacle after or during raising}
B65F 3/048	. . . {Linkages (B65F 3/041 takes precedence)}
B65F 3/06	. . . Arrangement and disposition of fluid actuators
B65F 3/08	. . Platform elevators or hoists with guides or runways for raising or tipping receptacles ({ pivotal guides or runways B65F 3/041 })
B65F 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
B65F 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)
B65F 3/143	. . {Means facilitating the separation of the charging, distributing or compressing devices from the tank of refuse vehicles}
B65F 2003/146	. . {Sensors, e.g. pressure sensors}
B65F 3/16	. . with conveyer wheels (with screw conveyers B65F 3/22)
B65F 3/18	. . with endless conveyers, e.g. elevators
B65F 3/20	. . with charging pistons, plates, or the like (for discharging B65F 3/28)
B65F 3/201	. . . {the charging pistons, plates or the like moving rectilinearly}
B65F 3/202	. . . {with radially shiftable charging plates or the like mounted on a rotary drum}
B65F 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)}

- B65F 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}
- B65F 3/206 . . . {with charging plates or the like rotating around a vertical axis}
- B65F 3/207 . . . {guided by tracks, channels, slots or the like provided on the vehicle}
- B65F 3/208 . . . {the charging pistons, plates or the like oscillating about a horizontal axis}
- B65F 3/22 . . with screw conveyers, rotary tanks
- B65F 3/225 . . . {Tanks rotating about a transversal axis for compressing the garbage by gravity}
- B65F 3/24 . with devices for unloading the tank of a refuse vehicle
- B65F 3/26 . . by tipping the tank
- B65F 3/28 . . by a lengthwise movement of a wall, e.g. a plate, a piston, or the like (for charging [B65F 3/20](#))

B65F 5/00 **Gathering or removal of refuse otherwise than by receptacles or vehicles**
(storage silos, charging and discharging thereof [B65G](#))

- B65F 5/005 . {by pneumatic means, e.g. by suction (conveying materials in bulk pneumatically in general [B65G 53/04](#))}

B65F 7/00 **Cleaning or disinfecting devices combined with refuse receptacles or refuse vehicles** (such devices per se [A61L](#), [B08B](#))

- B65F 7/005 . {Devices, mounted on refuse collecting vehicles, for cleaning or disinfecting refuse receptacles}

B65F 9/00 **Transferring of refuse between vehicles or containers with intermediate storage or pressing** (presses for baling per se [B30B 9/30](#))

B65F 2210/00 **Equipment of refuse receptacles**

- B65F 2210/102 . Absorbing means
- B65F 2210/1023 . . for liquids
- B65F 2210/1026 . . for smelling substances
- B65F 2210/104 . Ashtrays
- B65F 2210/108 . Authorization means
- B65F 2210/1085 . . Coins or tokens
- B65F 2210/112 . Coding means to aid in recycling
- B65F 2210/1121 . . Apertures
- B65F 2210/1123 . . Bar-codes
- B65F 2210/1125 . . Colors
- B65F 2210/1126 . . Symbols
- B65F 2210/1128 . . Text
- B65F 2210/116 . Cooling means
- B65F 2210/12 . Crushing means
- B65F 2210/124 . Counting means
- B65F 2210/126 . Cutting means
- B65F 2210/128 . Data transmitting means

B65F 2210/129	. Deodorizing means
B65F 2210/13	. Double walls
B65F 2210/132	. Draining means
B65F 2210/135	. Flower boxes
B65F 2210/136	. Dustpan
B65F 2210/137	. Fans
B65F 2210/138	. Identification means
B65F 2210/139	. Illuminating means
B65F 2210/14	. Incinerating means
B65F 2210/144	. Level detecting means
B65F 2210/1443	. . Electrical
B65F 2210/1446	. . Mechanical
B65F 2210/148	. Locking means
B65F 2210/15	. Marking means
B65F 2210/152	. Material detecting means
B65F 2210/1522	. . for glass
B65F 2210/1525	. . for metal
B65F 2210/1527	. . for plastics
B65F 2210/156	. Mousetraps
B65F 2210/16	. Music playing devices
B65F 2210/162	. Pressing means
B65F 2210/164	. Printers
B65F 2210/165	. Remote controls
B65F 2210/167	. Sealing means
B65F 2210/1675	. . by twisting, e.g. of a flexible tube
B65F 2210/168	. Sensing means
B65F 2210/169	. Shredding means
B65F 2210/17	. Smoke detecting means
B65F 2210/172	. Solar cells
B65F 2210/176	. Sorting means
B65F 2210/178	. Steps
B65F 2210/179	. Suction means, e.g. for forcing a bag inside the receptacle
B65F 2210/1795	. . for sucking off dust particles during insertion of refuse in the receptacle
B65F 2210/18	. Suspending means
B65F 2210/181	. Ventilating means, e.g. holes
B65F 2210/1815	. . for assisting the removal of a liner
B65F 2210/182	. Volume determining means
B65F 2210/183	. Volume reducing means, e.g. inserts
B65F 2210/184	. Weighing means
B65F 2210/188	. Vacuum drawing means

- B65F 2210/196 . Tape dispensers
- B65F 2210/20 . Temperature sensing means

B65F 2220/00**Properties of refuse receptacles**

- B65F 2220/101 . assembled from a plurality of panels
- B65F 2220/102 . assembled from a blank
- B65F 2220/104 . Bomb resistant
- B65F 2220/106 . Collapsible
- B65F 2220/1063 . . foldable
- B65F 2220/1066 . . telescopic
- B65F 2220/108 . connectable
- B65F 2220/112 . floatable
- B65F 2220/116 . inflatable
- B65F 2220/12 . nestable
- B65F 2220/122 . Poster resistant surface
- B65F 2220/124 . stackable
- B65F 2220/128 . transparent

B65F 2230/00**Shapes of refuse receptacles**

- B65F 2230/104 . Amphora
- B65F 2230/108 . Animal
- B65F 2230/112 . Bottle
- B65F 2230/116 . Can
- B65F 2230/12 . Fence
- B65F 2230/124 . Golf ball
- B65F 2230/126 . Hexagonal
- B65F 2230/127 . House
- B65F 2230/128 . Human
- B65F 2230/132 . Mushroom
- B65F 2230/134 . Oval
- B65F 2230/135 . Potted plant
- B65F 2230/136 . Pyramide
- B65F 2230/14 . Robot
- B65F 2230/144 . Seat
- B65F 2230/148 . Sleeve
- B65F 2230/15 . Sleeve having a disconnectable bottom
- B65F 2230/152 . Triangular
- B65F 2230/156 . Wave-like

B65F 2240/00**Types of refuse collected**

- B65F 2240/104 . Ashes

B65F 2240/108	. Batteries
B65F 2240/112	. Bottles
B65F 2240/1123	. . Glass
B65F 2240/1126	. . Plastics
B65F 2240/116	. Broken cutters
B65F 2240/118	. Building waste
B65F 2240/12	. Cans
B65F 2240/121	. Carrions
B65F 2240/122	. CD's, DVD's
B65F 2240/124	. Christmas trees
B65F 2240/128	. Clothing
B65F 2240/132	. Diapers
B65F 2240/136	. Dog dirt
B65F 2240/137	. Drilling dust
B65F 2240/138	. Garden debris
B65F 2240/14	. Gum
B65F 2240/142	. Grease
B65F 2240/143	. Ink cartridges
B65F 2240/144	. Leather
B65F 2240/145	. Medicine
B65F 2240/146	. Nails
B65F 2240/148	. Neon tubes
B65F 2240/152	. Oil
B65F 2240/156	. Paper
B65F 2240/1562	. . confidential
B65F 2240/1564	. . Carton
B65F 2240/1566	. . handkerchiefs
B65F 2240/1568	. . Towels
B65F 2240/16	. Pizza boxes
B65F 2240/162	. Pressurized containers
B65F 2240/164	. Sanitary towels
B65F 2240/166	. Staples
B65F 2240/168	. Telephone cards
B65F 2240/172	. Vomit
B65F 2250/00	Materials of refuse receptacles
B65F 2250/105	. Biodegradable
B65F 2250/106	. Carton
B65F 2250/107	. Glass
B65F 2250/108	. Paper

B65F 2250/11	. Metal
B65F 2250/111	. . Aluminum
B65F 2250/112	. . Steel
B65F 2250/114	. Plastics
B65F 2250/1143	. . Polyethylene
B65F 2250/1146	. . Polypropylene
B65F 2250/116	. Recycled material
B65F 2250/12	. Rubber
B65F 2250/128	. Wood