

**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](#) })

**Guidance heading:****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 receptables, 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 2001/064 .. having a plurality of flexible inserts, e.g. on a roll
- 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 therein (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](#))**

**Guidance heading:**

- 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
<b>B65F 2220/00</b>	<b>Properties of refuse receptacles</b>
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 receptacles**



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
<b>B65F 2250/00</b>	<b>Materials of refuse receptacles</b>
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