

| Symbol | Typ | Titel |
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| B | Sektion | SECTION B — PERFORMING OPERATIONS; TRANSPORTING |
| B65 | Klasse | CONVEYING; PACKING; STORING; HANDLING THIN OR FILAMENTARY MATERIAL |
| B65B | Unterklasse | MACHINES, APPARATUS OR DEVICES FOR, OR METHODS OF, PACKAGING ARTICLES OR MATERIALS; UNPACKING (bundling and pressing devices for cigars A24C 1/44; paper-bag holders as shop or office accessories A47F 13/08; apparatus for coating, e.g. by dipping, B05C; devices for tensioning and securing binders adapted to be supported by the article or articles to be bound B25B; nailing or stapling devices B25C, B27F; inserting documents in envelopes and closing the latter B43M 3/00, B43M 5/00; labelling B65C; wrappers, containers or other packaging elements, e.g. binders, closures, protective caps, B65D; transport or storage devices B65G; devices for handling sheets or webs of interest apart from their application in packaging machines B65H; applying closure members to bottles, jars or similar containers B67B; hand- or power-operated devices not attached to, or not incorporated in, containers or container closures for opening closed containers B67B 7/00; packaging of matches C06F; wrapping sugar during manufacture C13H; packaging of ammunition or explosive charges F42B 39/00; making containers or receptacles, <u>see</u> the appropriate subclasses) |
| | | <u>Machines, apparatus, or methods of general application for packaging articles or materials</u> |
| B65B 1/00 | Hauptgruppe | Packaging fluent solid material, e.g. powders, granular or loose fibrous material, loose masses of small articles, in individual containers or receptacles, e.g. bags, sacks, boxes, cartons, cans, jars (under special atmospheric or gaseous conditions B65B 31/00) |
| B65B 1/02 | 1-Punkt Untergruppe | . Machines characterised by the incorporation of means for making the containers or receptacles (from flat, folded, or tubular webs of flexible sheet material B65B 9/00; making containers or receptacles of interest apart from this application, <u>see</u> the appropriate subclasses) |
| B65B 1/04 | 1-Punkt Untergruppe | . Methods of, or means for, filling the material into the containers or receptacles |
| B65B 1/06 | 2-Punkt Untergruppe | . . by gravity flow |
| B65B 1/08 | 2-Punkt Untergruppe | . . by vibratory feeders |
| B65B 1/10 | 2-Punkt Untergruppe | . . by rotary feeders |
| B65B 1/12 | 3-Punkt Untergruppe | . . . of screw type |
| B65B 1/14 | 3-Punkt Untergruppe | . . . of centrifugal type |
| B65B 1/16 | 2-Punkt Untergruppe | . . by pneumatic means, e.g. by suction |
| B65B 1/18 | 2-Punkt Untergruppe | . . for filling valve-bags |
| B65B 1/20 | 1-Punkt Untergruppe | . Reducing volume of filled material |
| B65B 1/22 | 2-Punkt Untergruppe | . . by vibration |
| B65B 1/24 | 2-Punkt Untergruppe | . . by mechanical compression |
| B65B 1/26 | 2-Punkt Untergruppe | . . by pneumatic means, e.g. suction |
| B65B 1/28 | 1-Punkt Untergruppe | . Controlling escape of air or dust from containers or receptacles during filling (cleaning of, or removing dust from, containers, wrappers, or packages B65B 55/24) |
| B65B 1/30 | 1-Punkt Untergruppe | . Devices or methods for controlling or determining the quantity or quality of the material fed or filled |
| B65B 1/32 | 2-Punkt Untergruppe | . . by weighing (check-weighing of filled containers or receptacles B65B 1/46; weighing in general G01G) |

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| B65B 1/34 | 3-Punkt Untergruppe | . . . Adjusting weight by trickle feed |
| B65B 1/36 | 2-Punkt Untergruppe | . . by volumetric devices or methods (checking volume of filled material B65B 1/48; volumetric measurement in general G01F) |
| B65B 1/38 | 3-Punkt Untergruppe | . . . by pistons co-operating with measuring chambers |
| B65B 1/40 | 2-Punkt Untergruppe | . . by timing of filling operations |
| B65B 1/42 | 3-Punkt Untergruppe | . . . and arresting flow by cut-off means |
| B65B 1/44 | 2-Punkt Untergruppe | . . Checking density of material to be filled |
| B65B 1/46 | 2-Punkt Untergruppe | . . Check-weighing of filled containers or receptacles (check-weighing in general G01G) |
| B65B 1/48 | 2-Punkt Untergruppe | . . Checking volume of filled material |
| B65B 3/00 | Hauptgruppe | Packaging plastic material, semiliquids, liquids, or mixed solids and liquids, in individual containers or receptacles, e.g. bags, sacks, boxes, cartons, cans, jars (packaging under special atmospheric or gaseous conditions, adding propellants to aerosol containers B65B 31/00; filling bottles or other containers with liquids or semi-liquids by bottling machines B67C; filling of gas bottles at high pressure for storing gases F17C) |
| B65B 3/02 | 1-Punkt Untergruppe | . Machines characterised by the incorporation of means for making the containers or receptacles (making containers or receptacles of interest apart from this application, <u>see</u> the appropriate subclasses) |
| B65B 3/04 | 1-Punkt Untergruppe | . Methods of, or means for, filling the material into the containers or receptacles |
| B65B 3/06 | 2-Punkt Untergruppe | . . by gravity flow |
| B65B 3/08 | 2-Punkt Untergruppe | . . by screw-type feeders |
| B65B 3/10 | 2-Punkt Untergruppe | . . by application of pressure to material (by screw-type feeders B65B 3/08) |
| B65B 3/12 | 3-Punkt Untergruppe | . . . mechanically, e.g. by pistons or pumps |
| B65B 3/14 | 3-Punkt Untergruppe | . . . pneumatically |
| B65B 3/16 | 2-Punkt Untergruppe | . . for filling collapsible tubes (for filling valve bags B65B 3/17) |
| B65B 3/17 | 2-Punkt Untergruppe | . . for filling valve bags |
| B65B 3/18 | 1-Punkt Untergruppe | . Controlling escape of air from containers or receptacles during filling |
| B65B 3/22 | 1-Punkt Untergruppe | . Defoaming liquids in connection with filling |
| B65B 3/24 | 1-Punkt Untergruppe | . Topping-up containers or receptacles to ensure complete filling |
| B65B 3/26 | 1-Punkt Untergruppe | . Methods or devices for controlling the quantity of the material fed or filled |
| B65B 3/28 | 2-Punkt Untergruppe | . . by weighing (in general G01G) |
| B65B 3/30 | 2-Punkt Untergruppe | . . by volumetric measurement (in general G01F) |
| B65B 3/32 | 3-Punkt Untergruppe | . . . by pistons co-operating with measuring chambers |
| B65B 3/34 | 2-Punkt Untergruppe | . . by timing of filling operations |
| B65B 3/36 | 3-Punkt Untergruppe | . . . and arresting flow by cut-off means |
| B65B 5/00 | Hauptgruppe | Packaging individual articles in containers or receptacles, e.g. bags, sacks, boxes, cartons, cans, jars |

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| B65B 5/02 | 1-Punkt Untergruppe | . Machines characterised by incorporation of means for making the containers or receptacles (from flat, folded, or tubular webs of flexible sheet material B65B 9/00; making containers or receptacles of interest apart from this application, <u>see</u> the appropriate subclasses) |
| B65B 5/04 | 1-Punkt Untergruppe | . Packaging single articles |
| B65B 5/06 | 1-Punkt Untergruppe | . Packaging groups of articles, the groups being treated as single articles |
| B65B 5/08 | 1-Punkt Untergruppe | . Packaging groups of articles, the articles being individually gripped or guided for transfer to the containers or receptacles |
| B65B 5/10 | 1-Punkt Untergruppe | . Filling containers or receptacles progressively or in stages by introducing successive articles, or layers of articles |
| B65B 5/12 | 2-Punkt Untergruppe | . . Introducing successive articles, e.g. confectionery products, of different shape or size in predetermined positions |
| B65B 7/00 | Hauptgruppe | Closing containers or receptacles after filling (combinations of container-closing apparatus with apparatus for filling containers B65B 1/00, B65B 3/00, B65B 5/00; under special atmospheric or gaseous conditions B65B 31/00; devices for, or methods of, sealing or securing package folds or closures, e.g. twisted bag necks, B65B 51/00; shrinking wrappers, containers, container covers or container cover securing members during or after packaging B65B 53/00) |
| B65B 7/01 | 1-Punkt Untergruppe | . Machines characterised by incorporation of means for making the closures before applying (making closures, of interest apart from this application, <u>see</u> the relevant subclass) [6] |
| B65B 7/02 | 1-Punkt Untergruppe | . Closing containers or receptacles deformed by, or taking-up shape of, contents, e.g. bags, sacks |
| B65B 7/04 | 2-Punkt Untergruppe | . . by tucking-in mouth portion to form two flaps and subsequently folding-down |
| B65B 7/06 | 2-Punkt Untergruppe | . . by collapsing mouth portion, e.g. to form a single flap |
| B65B 7/08 | 3-Punkt Untergruppe | . . . and folding |
| B65B 7/10 | 3-Punkt Untergruppe | . . . and rolling-in |
| B65B 7/12 | 3-Punkt Untergruppe | . . . and twisting |
| B65B 7/14 | 1-Punkt Untergruppe | . Closing collapsible or resilient tubes, e.g. for tooth-paste, for lighter fuel |
| B65B 7/16 | 1-Punkt Untergruppe | . Closing semi-rigid or rigid containers or receptacles not deformed by, or not taking-up shape of, contents, e.g. boxes, cartons (closing cans by metal-working operations B21D 51/26) |
| B65B 7/18 | 2-Punkt Untergruppe | . . by collapsing mouth portion and subsequently folding-down or securing flaps |
| B65B 7/20 | 2-Punkt Untergruppe | . . by folding-down preformed flaps |
| B65B 7/22 | 3-Punkt Untergruppe | . . . and inserting flap portions between contents and wall |
| B65B 7/24 | 3-Punkt Untergruppe | . . . and interengaging tongue-and-slot closures |
| B65B 7/26 | 2-Punkt Untergruppe | . . by closing hinged lids |
| B65B 7/28 | 2-Punkt Untergruppe | . . by applying separate preformed closures, e.g. lids, covers |
| B65B 9/00 | Hauptgruppe | Enclosing successive articles, or quantities of material, e.g. liquids or semiliquids, in flat, folded, or tubular webs of flexible sheet material; Subdividing filled flexible tubes to form packages |
| B65B 9/02 | 1-Punkt Untergruppe | . Enclosing articles, or quantities of material, between opposed webs |
| B65B 9/04 | 2-Punkt Untergruppe | . . one or both webs being formed with pockets for the reception of the articles, or of the quantities of material |

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| B65B 9/06 | 1-Punkt Untergruppe | . Enclosing articles, or quantities of material, in a longitudinally-folded web, or in a web folded into a tube about the articles or quantities of material placed upon it |
| B65B 9/08 | 2-Punkt Untergruppe | . . in a web folded and sealed transversely to form pockets which are subsequently filled and then closed by sealing |
| B65B 9/10 | 1-Punkt Untergruppe | . Enclosing articles, or quantities of material, in preformed tubular webs, or in webs formed into tubes around filling nozzles, e.g. extruded tubular webs (sausage making A22C 11/00) |
| B65B 9/12 | 2-Punkt Untergruppe | . . Subdividing filled tubes to form two or more packages by sealing or securing involving displacement of contents |
| B65B 9/13 | 2-Punkt Untergruppe | . . the preformed tubular webs being supplied in a flattened state [3] |
| B65B 9/14 | 3-Punkt Untergruppe | . . . Devices for distending the tubular webs [3] |
| B65B 9/15 | 2-Punkt Untergruppe | . . the preformed tubular webs being stored on filling nozzles [3] |
| B65B 9/18 | 3-Punkt Untergruppe | . . . Devices for storing tubular webs [3] |
| B65B 9/20 | 2-Punkt Untergruppe | . . the webs being formed into tubes <u>in situ</u> around the filling nozzles [3] |
| B65B 9/22 | 3-Punkt Untergruppe | . . . Forming shoulders; Tube formers [3] |
| B65B 9/24 | 2-Punkt Untergruppe | . . the tubes being formed <u>in situ</u> by extrusion [3] |
| B65B 11/00 | Hauptgruppe | Wrapping, e.g. partially or wholly enclosing, articles, or quantities of material, in strips, sheets, or blanks, of flexible material (bundling articles by applying narrow strips or bands of flexible material B65B 13/00; devices for folding or bending wrappers around contents B65B 49/00; devices for gathering or twisting wrappers B65B 51/00) |
| B65B 11/02 | 1-Punkt Untergruppe | . Wrapping articles, or quantities of material, without changing their position during the wrapping operation, e.g. in moulds with hinged folders (by doubling a wrapper and securing its opposed free margins to enclose contents B65B 11/48; by disposing contents between two sheets and securing their opposed free margins B65B 11/50; covering or wrapping cores by winding webs, tapes, or filamentary material B65H 81/00) |
| B65B 11/04 | 2-Punkt Untergruppe | . . the articles being rotated |
| B65B 11/06 | 1-Punkt Untergruppe | . Wrapping articles, or quantities of material, by conveying wrapper and contents in defined paths |
| B65B 11/08 | 2-Punkt Untergruppe | . . in a single straight path |
| B65B 11/10 | 3-Punkt Untergruppe | . . . to fold the wrappers in tubular form about contents |
| B65B 11/12 | 4-Punkt Untergruppe | and then to form closing folds of similar form at opposite ends of the tube |
| B65B 11/14 | 4-Punkt Untergruppe | the ends of the tube being subsequently twisted |
| B65B 11/16 | 3-Punkt Untergruppe | . . . to fold the wrappers in channel form about contents and then to close the ends of the channel by folding and finally the mouth of the channel by folding or twisting |
| B65B 11/18 | 2-Punkt Untergruppe | . . in two or more straight paths |
| B65B 11/20 | 3-Punkt Untergruppe | . . . to fold the wrappers in tubular form about contents |
| B65B 11/22 | 4-Punkt Untergruppe | and then to form closing folds of similar form at opposite ends of the tube |
| B65B 11/24 | 4-Punkt Untergruppe | the ends of the tube being subsequently twisted |
| B65B 11/26 | 3-Punkt Untergruppe | . . . to fold the wrappers in channel form about contents and then to close the ends of the channel by folding and finally the mouth of the channel by folding or twisting |
| B65B 11/28 | 2-Punkt Untergruppe | . . in a curved path, e.g. on rotary tables or turrets |

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| B65B 11/30 | 3-Punkt Untergruppe | . . . to fold the wrappers in tubular form about contents |
| B65B 11/32 | 4-Punkt Untergruppe | and then to form closing folds of similar form at opposite ends of the tube |
| B65B 11/34 | 4-Punkt Untergruppe | the ends of the tube being subsequently twisted |
| B65B 11/36 | 3-Punkt Untergruppe | . . . to fold the wrappers in channel form about contents and then to close the ends of the channel by folding and finally the mouth of the channel by folding or twisting |
| B65B 11/38 | 2-Punkt Untergruppe | . . in a combination of straight and curved paths |
| B65B 11/40 | 3-Punkt Untergruppe | . . . to fold the wrappers in tubular form about contents |
| B65B 11/42 | 4-Punkt Untergruppe | and then to form closing folds of similar form at opposite ends of the tube |
| B65B 11/44 | 4-Punkt Untergruppe | the ends of the tube being subsequently twisted |
| B65B 11/46 | 3-Punkt Untergruppe | . . . to fold the wrappers in channel form about contents and then to close the ends of the channel by folding and finally the mouth of the channel by folding or twisting |
| B65B 11/48 | 1-Punkt Untergruppe | . Enclosing articles, or quantities of material, by folding a wrapper, e.g. a pocketed wrapper, and securing its opposed free margins to enclose contents |
| B65B 11/50 | 1-Punkt Untergruppe | . Enclosing articles, or quantities of material, by disposing contents between two sheets, e.g. pocketed sheets, and securing their opposed free margins (apparatus or devices for forming pockets in or from sheets, blanks or webs B65B 47/00) |
| B65B 11/52 | 2-Punkt Untergruppe | . . one sheet being rendered plastic, e.g. by heating, and forced by fluid pressure, e.g. vacuum, into engagement with the other sheet and contents, e.g. skin-packaging |
| B65B 11/54 | 1-Punkt Untergruppe | . Wrapping by causing the wrapper to embrace one end and all sides of the contents, and closing the wrapper onto the opposite end by forming regular or irregular pleats |
| B65B 11/56 | 1-Punkt Untergruppe | . Rolling articles with wrappers along a supporting surface (for bottles B65B 21/26) |
| B65B 11/58 | 1-Punkt Untergruppe | . Applying two or more wrappers, e.g. in succession |
| B65B 13/00 | Hauptgruppe | Bundling articles (specially adapted for harvesting A01D 37/00, A01D 39/00, A01D 59/00, A01F 1/00; bundling particular articles presenting special problems using string, wire, or narrow tape or band B65B 27/00) |
| B65B 13/02 | 1-Punkt Untergruppe | . Applying and securing binding material around articles or groups of articles, e.g. using strings, wires, strips, bands, or tapes (tying devices in baling presses A01F 15/14, B30B 9/30; applying reinforcing means to non-metal sleepers E01B 31/28) [3] |
| B65B 13/04 | 2-Punkt Untergruppe | . . with means for guiding the binding material around the articles prior to severing from supply |
| B65B 13/06 | 3-Punkt Untergruppe | . . . Stationary ducts or channels |
| B65B 13/08 | 3-Punkt Untergruppe | . . . Single guide or carrier for the free end of material movable part-way around articles from one side only |
| B65B 13/10 | 3-Punkt Untergruppe | . . . Carriers travelling completely around the articles while holding the free end of material |
| B65B 13/12 | 4-Punkt Untergruppe | attached to rotating rings |
| B65B 13/14 | 3-Punkt Untergruppe | . . . Pairs of carriers or guides movable around opposite sides of the articles |
| B65B 13/16 | 2-Punkt Untergruppe | . . with means for severing the binding material from supply and then applying it around the articles |
| B65B 13/18 | 1-Punkt Untergruppe | . Details of, or auxiliary devices used in, bundling machines |
| B65B 13/20 | 2-Punkt Untergruppe | . . Means for compressing or compacting bundles prior to bundling |
| B65B 13/22 | 2-Punkt Untergruppe | . . Means for controlling tension of binding means |

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| B65B 13/24 | 2-Punkt Untergruppe | . . Securing ends of binding material |
| B65B 13/26 | 3-Punkt Untergruppe | . . . by knotting |
| B65B 13/28 | 3-Punkt Untergruppe | . . . by twisting |
| B65B 13/30 | 3-Punkt Untergruppe | . . . by deforming the overlapping ends of the strip or band |
| B65B 13/32 | 3-Punkt Untergruppe | . . . by welding, soldering, or heat-sealing; by applying adhesive |
| B65B 13/34 | 3-Punkt Untergruppe | . . . by applying separate securing members, e.g. deformable clips |
| B65B 15/00 | Hauptgruppe | Attaching articles to cards, sheets, strings, webs, or other carriers |
| B65B 15/02 | 1-Punkt Untergruppe | . Attaching small articles, e.g. buttons, to cards (cards for buttons, collar-studs, or sleeve-links A44B 7/00) |
| B65B 15/04 | 1-Punkt Untergruppe | . Attaching a series of articles, e.g. small electrical components, to a continuous web |
| B65B 17/00 | Hauptgruppe | Other machines, apparatus, or methods for packaging articles or materials |
| B65B 17/02 | 1-Punkt Untergruppe | . Joining articles, e.g. cans, directly to each other for convenience of storage, transport, or handling |
| | | <u>Machines, apparatus, or methods adapted for packaging articles or materials presenting special problems, or for special packaging operations; Unpacking bottles or eggs</u> |
| B65B 19/00 | Hauptgruppe | Packaging rod-shaped or tubular articles susceptible to damage by abrasion or pressure, e.g. cigarettes, cigars, macaroni, spaghetti, drinking straws, welding electrodes (final treatment of cigars or cigarettes after manufacture A24C 1/38, A24C 5/60) |
| B65B 19/02 | 1-Punkt Untergruppe | . Packaging cigarettes |
| B65B 19/04 | 2-Punkt Untergruppe | . . Arranging, feeding, or orientating the cigarettes |
| B65B 19/06 | 3-Punkt Untergruppe | . . . Turning individual cigarettes to present printed marks in desired position |
| B65B 19/08 | 3-Punkt Untergruppe | . . . Positioning oval cigarettes in overlapped arrangement |
| B65B 19/10 | 3-Punkt Untergruppe | . . . Arranging cigarettes in layers each comprising a predetermined number |
| B65B 19/12 | 2-Punkt Untergruppe | . . Inserting the cigarettes, or wrapped groups thereof, into preformed containers |
| B65B 19/14 | 3-Punkt Untergruppe | . . . into pocket boxes, e.g. boxes of rectangular form closed at one end by a flap adapted to be inserted into a slot in the body |
| B65B 19/16 | 4-Punkt Untergruppe | into boxes with two pockets |
| B65B 19/18 | 3-Punkt Untergruppe | . . . into drawer-and-shell type boxes or cartons |
| B65B 19/20 | 3-Punkt Untergruppe | . . . into boxes with hinged lids |
| B65B 19/22 | 2-Punkt Untergruppe | . . Wrapping the cigarettes; Packaging the cigarettes in containers formed by folding wrapping material around formers |
| B65B 19/24 | 3-Punkt Untergruppe | . . . using hollow mandrels through which groups of cigarettes are fed |
| B65B 19/26 | 1-Punkt Untergruppe | . Machines specially adapted for packaging cigars |
| B65B 19/28 | 1-Punkt Untergruppe | . Control devices for cigarette or cigar packaging machines (of general application in packaging machines B65B 57/00) |
| B65B 19/30 | 2-Punkt Untergruppe | . . responsive to presence of faulty articles, e.g. incorrectly-filled cigarettes |
| B65B 19/32 | 2-Punkt Untergruppe | . . responsive to incorrect grouping of articles or to incorrect filling of packages |
| B65B 19/34 | 1-Punkt Untergruppe | . Packaging other rod-shaped articles, e.g. sausages, macaroni, spaghetti, drinking straws, welding electrodes |
| B65B 21/00 | Hauptgruppe | Packaging or unpacking of bottles (bundling bottles B65B 27/04) |

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| B65B 21/02 | 1-Punkt Untergruppe | . into or from preformed containers, e.g. crates |
| B65B 21/04 | 2-Punkt Untergruppe | . . Arranging, assembling, feeding, or orientating the bottles prior to introduction into, or after removal from, containers |
| B65B 21/06 | 3-Punkt Untergruppe | . . . Forming groups of bottles |
| B65B 21/08 | 2-Punkt Untergruppe | . . Introducing or removing single bottles, or groups of bottles, e.g. for progressive filling or emptying of containers |
| B65B 21/10 | 3-Punkt Untergruppe | . . . using gravity flow |
| B65B 21/12 | 3-Punkt Untergruppe | . . . using grippers engaging bottles, e.g. bottle necks (grippers in general B25J) [3] |
| B65B 21/14 | 2-Punkt Untergruppe | . . Introducing or removing groups of bottles, for filling or emptying containers in one operation |
| B65B 21/16 | 3-Punkt Untergruppe | . . . using gravity flow |
| B65B 21/18 | 3-Punkt Untergruppe | . . . using grippers engaging bottles, e.g. bottle necks (grippers in general B25J) [3] |
| B65B 21/20 | 4-Punkt Untergruppe | with means for varying spacing of bottles |
| B65B 21/22 | 3-Punkt Untergruppe | . . . by inverting and raising or lowering the container relative to bottles |
| B65B 21/24 | 1-Punkt Untergruppe | . Enclosing bottles in wrappers |
| B65B 21/26 | 2-Punkt Untergruppe | . . Applying wrappers to individual bottles by operations involving rotation or rolling of the bottles (to articles in general B65B 11/56) |
| B65B 23/00 | Hauptgruppe | Packaging fragile or shock-sensitive articles other than bottles; Unpacking eggs (embedding articles in shock-absorbing media B65B 55/20) |
| B65B 23/02 | 1-Punkt Untergruppe | . Packaging or unpacking eggs |
| B65B 23/04 | 2-Punkt Untergruppe | . . Erecting egg trays or cartons from collapsed blanks |
| B65B 23/06 | 2-Punkt Untergruppe | . . Arranging, feeding, or orientating the eggs to be packed; Removing eggs from trays or cartons |
| B65B 23/08 | 3-Punkt Untergruppe | . . . using grippers (testing, sorting, or cleaning eggs A01K 43/00; egg grippers for cooking purposes A47J 29/06) |
| B65B 23/10 | 1-Punkt Untergruppe | . Packaging biscuits |
| B65B 23/12 | 2-Punkt Untergruppe | . . Arranging, feeding, or orientating the biscuits to be packaged (in connection with baking A21C 15/00) |
| B65B 23/14 | 3-Punkt Untergruppe | . . . Forming groups of biscuits |
| B65B 23/16 | 2-Punkt Untergruppe | . . Inserting the biscuits, or wrapped groups thereof, into preformed containers |
| B65B 23/18 | 2-Punkt Untergruppe | . . Wrapping individual biscuits, or groups of biscuits |
| B65B 23/20 | 1-Punkt Untergruppe | . Packaging plate glass, tiles, or shingles |
| B65B 23/22 | 1-Punkt Untergruppe | . Packaging glass ampoules, lamp bulbs, radio valves or tubes, or the like |
| B65B 25/00 | Hauptgruppe | Packaging other articles presenting special problems (bundling B65B 27/00) |
| B65B 25/02 | 1-Punkt Untergruppe | . Packaging agricultural or horticultural products |
| B65B 25/04 | 2-Punkt Untergruppe | . . Packaging fruit or vegetables (bag or sack-filling devices associated with digging harvesters A01D 33/10) |
| B65B 25/06 | 1-Punkt Untergruppe | . Packaging slices or specially-shaped pieces of meat, cheese, or other plastic or tacky products |
| B65B 25/08 | 2-Punkt Untergruppe | . . between layers or strips of sheet or web material, e.g. in webs folded to zig-zag form |

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| B65B 25/10 | 2-Punkt Untergruppe | . . Forming sector-shaped packages of cheese or like plastic products |
| B65B 25/12 | 3-Punkt Untergruppe | . . . and enclosing in circular containers |
| B65B 25/14 | 1-Punkt Untergruppe | . Packaging paper or like sheets, envelopes, or newspapers, in flat, folded, or rolled form |
| B65B 25/16 | 1-Punkt Untergruppe | . Packaging bread or like bakery products, e.g. unsliced loaves [2] |
| B65B 25/18 | 2-Punkt Untergruppe | . . Wrapping sliced bread (cutting or slicing machines or devices specially adapted for baked articles other than bread A21C 15/04, for bread B26B, B26D) |
| B65B 25/20 | 1-Punkt Untergruppe | . Packaging garments, e.g. socks, stockings, shirts |
| B65B 25/22 | 1-Punkt Untergruppe | . Packaging articles of food, e.g. fish fillets, intended to be cooked in the package |
| B65B 25/24 | 1-Punkt Untergruppe | . Packaging annular articles, e.g. tyres |
| B65B 27/00 | Hauptgruppe | Bundling particular articles presenting special problems using string, wire, or narrow tape or band; Baling fibrous material, e.g. peat, not otherwise provided for (bundling articles in general B65B 13/00) |
| B65B 27/02 | 1-Punkt Untergruppe | . Bundling bricks or other building blocks |
| B65B 27/04 | 1-Punkt Untergruppe | . Bundling groups of cans or bottles |
| B65B 27/06 | 1-Punkt Untergruppe | . Bundling coils of wire or like annular objects |
| B65B 27/08 | 1-Punkt Untergruppe | . Bundling paper sheets, envelopes, bags or other thin flat articles; Bundling newspapers |
| B65B 27/10 | 1-Punkt Untergruppe | . Bundling rods, sticks, or like elongated objects |
| B65B 27/12 | 1-Punkt Untergruppe | . Baling or bundling compressible fibrous material, e.g. peat (baling presses for straw, hay, or the like A01F 15/00; baling presses in general B30B 9/30) |
| B65B 29/00 | Hauptgruppe | Packaging of materials presenting special problems |
| B65B 29/02 | 1-Punkt Untergruppe | . Packaging of substances, e.g. tea, which are intended to be infused in the package |
| B65B 29/04 | 2-Punkt Untergruppe | . . Attaching, or forming and attaching, string handles or tags to tea bags |
| B65B 29/06 | 1-Punkt Untergruppe | . Packaging of substances to which a further ingredient, e.g. water, is to be added in the package by the user for mixing prior to dispensing |
| B65B 29/08 | 1-Punkt Untergruppe | . Packaging of edible materials intended to be cooked in the package (infusible substances B65B 29/02) |
| B65B 29/10 | 1-Punkt Untergruppe | . Packaging two or more different substances isolated from one another in the package but capable of being mixed without opening the package, e.g. forming packages containing a resin and hardener isolated by a frangible partition |
| B65B 31/00 | Hauptgruppe | Packaging articles or materials under special atmospheric or gaseous conditions; Adding propellants to aerosol containers (auxiliary treatments during loading or unloading in a fluid medium other than air B65G 69/20) |
| B65B 31/02 | 1-Punkt Untergruppe | . Filling, closing, or filling and closing, containers in chambers maintained under vacuum or superatmospheric pressure or containing a special atmosphere, e.g. of inert gas |
| B65B 31/04 | 1-Punkt Untergruppe | . Evacuating, pressurising, or gasifying filled containers or wrappers by means of nozzles through which air or other gas, e.g. an inert gas, is withdrawn or supplied (nozzles for introducing articles or materials into containers B65B 39/00) |
| B65B 31/06 | 2-Punkt Untergruppe | . . the nozzle being arranged for insertion into, and withdrawal from, the mouth of a filled container and operating in conjunction with means for sealing the container mouth |
| B65B 31/08 | 2-Punkt Untergruppe | . . the nozzle being adapted to pierce the container or wrapper |
| B65B 31/10 | 1-Punkt Untergruppe | . Adding propellants in solid form to aerosol containers |

| Symbol | Typ | Titel |
|-------------------|---------------------|--|
| B65B 33/00 | Hauptgruppe | Packaging articles by applying removable, e.g. strippable, coatings (B65B 11/52 takes precedence ; applying liquids or other fluent materials to surfaces in general B05; wrapping cores by winding B65H 81/00) [3] |
| B65B 33/02 | 1-Punkt Untergruppe | . Packaging small articles, e.g. spare parts for machines or engines |
| B65B 33/04 | 1-Punkt Untergruppe | . Packaging large articles, e.g. complete machines, aircraft |
| B65B 33/06 | 2-Punkt Untergruppe | . . the coating being applied to a supporting layer or framework of sheets or strips of thin flexible material, e.g. cocoon packaging |
| | | <u>Details of, auxiliary devices applied to, or auxiliary measures taken in, machines, apparatus, or methods, not otherwise provided for</u> |
| B65B 35/00 | Hauptgruppe | Supplying, feeding, arranging, or orientating articles to be packaged (cigarettes B65B 19/04; bottles B65B 21/04; eggs B65B 23/06; biscuits B65B 23/12; if not restricted to packaging machines B07C, B65G, B65H) |
| B65B 35/02 | 1-Punkt Untergruppe | . Supply magazines |
| B65B 35/04 | 2-Punkt Untergruppe | . . with buffer storage devices |
| B65B 35/06 | 1-Punkt Untergruppe | . Separating single articles from loose masses of articles |
| B65B 35/08 | 2-Punkt Untergruppe | . . using pocketed conveyers |
| B65B 35/10 | 1-Punkt Untergruppe | . Feeding, e.g. conveying, single articles (orientating B65B 35/56) |
| B65B 35/12 | 2-Punkt Untergruppe | . . by gravity |
| B65B 35/14 | 2-Punkt Untergruppe | . . by agitators or vibrators |
| B65B 35/16 | 2-Punkt Untergruppe | . . by grippers |
| B65B 35/18 | 3-Punkt Untergruppe | . . . by suction-operated grippers |
| B65B 35/20 | 2-Punkt Untergruppe | . . by reciprocating or oscillatory pushers |
| B65B 35/22 | 2-Punkt Untergruppe | . . by roller-ways |
| B65B 35/24 | 2-Punkt Untergruppe | . . by endless belts or chains |
| B65B 35/26 | 2-Punkt Untergruppe | . . by rotary conveyers |
| B65B 35/28 | 2-Punkt Untergruppe | . . by pneumatic conveyers |
| B65B 35/30 | 1-Punkt Untergruppe | . Arranging and feeding articles in groups (orientating B65B 35/56) |
| B65B 35/32 | 2-Punkt Untergruppe | . . by gravity |
| B65B 35/34 | 2-Punkt Untergruppe | . . by agitators or vibrators |
| B65B 35/36 | 2-Punkt Untergruppe | . . by grippers |
| B65B 35/38 | 3-Punkt Untergruppe | . . . by suction-operated grippers |
| B65B 35/40 | 2-Punkt Untergruppe | . . by reciprocating or oscillatory pushers |
| B65B 35/42 | 2-Punkt Untergruppe | . . by roller-ways |
| B65B 35/44 | 2-Punkt Untergruppe | . . by endless belts or chains |
| B65B 35/46 | 2-Punkt Untergruppe | . . by rotary conveyers |
| B65B 35/48 | 2-Punkt Untergruppe | . . by pneumatic conveyers |

| Symbol | Typ | Titel |
|-------------------|---------------------|---|
| B65B 35/50 | 2-Punkt Untergruppe | . . Stacking one article, or group of articles, upon another before packaging |
| B65B 35/52 | 3-Punkt Untergruppe | . . . building-up the stack from the bottom |
| B65B 35/54 | 2-Punkt Untergruppe | . . Feeding articles along multiple paths to a single packaging position |
| B65B 35/56 | 1-Punkt Untergruppe | . Orientating, i.e. changing the attitude of, articles, e.g. of non-uniform cross-section |
| B65B 35/58 | 2-Punkt Untergruppe | . . Turning articles by positively-acting means, e.g. to present labelled portions in uppermost position |
| B65B 37/00 | Hauptgruppe | Supplying or feeding fluent-solid, plastic, or liquid material, or loose masses of small articles, to be packaged (methods of, or means for, filling individual containers with such materials or articles B65B 1/04, B65B 3/04) |
| B65B 37/02 | 1-Punkt Untergruppe | . by gravity flow |
| B65B 37/04 | 1-Punkt Untergruppe | . by vibratory feeders |
| B65B 37/06 | 1-Punkt Untergruppe | . by pistons or pumps |
| B65B 37/08 | 1-Punkt Untergruppe | . by rotary feeders |
| B65B 37/10 | 2-Punkt Untergruppe | . . of screw type |
| B65B 37/12 | 2-Punkt Untergruppe | . . of centrifugal type |
| B65B 37/14 | 1-Punkt Untergruppe | . by pneumatic feeders |
| B65B 37/16 | 1-Punkt Untergruppe | . Separating measured quantities from supply (in container-filling machines B65B 1/30, B65B 3/26) |
| B65B 37/18 | 2-Punkt Untergruppe | . . by weighing (in general G01G) |
| B65B 37/20 | 2-Punkt Untergruppe | . . by volume measurement (in general G01F) |
| B65B 39/00 | Hauptgruppe | Nozzles, funnels, or guides for introducing articles or materials into containers or wrappers (nozzles in general B05B; funnels in general B67C 11/00) |
| B65B 39/02 | 1-Punkt Untergruppe | . Expansible or contractible nozzles, funnels, or guides |
| B65B 39/04 | 1-Punkt Untergruppe | . having air-escape, or air-withdrawal, passages |
| B65B 39/06 | 1-Punkt Untergruppe | . adapted to support containers or wrappers |
| B65B 39/08 | 2-Punkt Untergruppe | . . by means of clamps |
| B65B 39/10 | 3-Punkt Untergruppe | . . . operating automatically |
| B65B 39/12 | 1-Punkt Untergruppe | . movable towards, or away from, container or wrapper during filling or depositing |
| B65B 39/14 | 1-Punkt Untergruppe | . movable with a moving container or wrapper during filling or depositing |
| B65B 41/00 | Hauptgruppe | Supplying or feeding container-forming sheets or wrapping material (in general B65H) |
| B65B 41/02 | 1-Punkt Untergruppe | . Feeding sheets or wrapper blanks |
| B65B 41/04 | 2-Punkt Untergruppe | . . by grippers |
| B65B 41/06 | 3-Punkt Untergruppe | . . . by suction-operated grippers |
| B65B 41/08 | 2-Punkt Untergruppe | . . by reciprocating or oscillating pushers |
| B65B 41/10 | 2-Punkt Untergruppe | . . by rollers |
| B65B 41/12 | 1-Punkt Untergruppe | . Feeding webs from rolls |

| Symbol | Typ | Titel |
|-------------------|---------------------|--|
| B65B 41/14 | 2-Punkt Untergruppe | . . by grippers |
| B65B 41/16 | 2-Punkt Untergruppe | . . by rollers |
| B65B 41/18 | 1-Punkt Untergruppe | . Registering sheets, blanks, or webs |
| B65B 43/00 | Hauptgruppe | Forming, feeding, opening, or setting-up containers or receptacles in association with packaging (forming pockets in sheets, blanks, or webs, by pressing the material into forming dies or moving it through folding dies B65B 47/00) |
| B65B 43/02 | 1-Punkt Untergruppe | . Forming flat bags from individual sheets or blanks |
| B65B 43/04 | 1-Punkt Untergruppe | . Forming flat bags from webs |
| B65B 43/06 | 2-Punkt Untergruppe | . . from more than one web |
| B65B 43/08 | 1-Punkt Untergruppe | . Forming three-dimensional containers from sheet material |
| B65B 43/10 | 2-Punkt Untergruppe | . . by folding the material |
| B65B 43/12 | 1-Punkt Untergruppe | . Feeding flexible bags or carton blanks in flat or collapsed state; Feeding flat bags connected to form a series or chain |
| B65B 43/14 | 2-Punkt Untergruppe | . . Feeding individual bags or carton blanks from piles or magazines |
| B65B 43/16 | 3-Punkt Untergruppe | . . . by grippers |
| B65B 43/18 | 4-Punkt Untergruppe | by suction-operated grippers |
| B65B 43/20 | 3-Punkt Untergruppe | . . . by reciprocating or oscillating pushers |
| B65B 43/22 | 3-Punkt Untergruppe | . . . by rollers |
| B65B 43/24 | 1-Punkt Untergruppe | . Breaking creases to facilitate setting-up cartons |
| B65B 43/26 | 1-Punkt Untergruppe | . Opening or distending bags; Opening, erecting, or setting-up boxes, cartons, or carton blanks |
| B65B 43/28 | 2-Punkt Untergruppe | . . by grippers co-operating with fixed supports |
| B65B 43/30 | 2-Punkt Untergruppe | . . by grippers engaging opposed walls, e.g. suction-operated |
| B65B 43/32 | 2-Punkt Untergruppe | . . by external pressure diagonally applied |
| B65B 43/34 | 2-Punkt Untergruppe | . . by internal pressure |
| B65B 43/36 | 3-Punkt Untergruppe | . . . applied pneumatically |
| B65B 43/38 | 1-Punkt Untergruppe | . Opening hinged lids |
| B65B 43/39 | 2-Punkt Untergruppe | . . Opening-out closure flaps clear of bag, box, or carton mouth |
| B65B 43/40 | 1-Punkt Untergruppe | . Removing separate lids |
| B65B 43/41 | 1-Punkt Untergruppe | . Opening drawer-and-shell cartons |
| B65B 43/42 | 1-Punkt Untergruppe | . Feeding or positioning bags, boxes, or cartons in the distended, opened, or set-up state; Feeding preformed rigid containers, e.g. tins, capsules, glass tubes, glasses, to the packaging position; Locating containers or receptacles at the filling position (by means of filling nozzles B65B 39/00); Supporting containers or receptacles during the filling operation (by filling nozzles B65B 39/00) |
| B65B 43/44 | 2-Punkt Untergruppe | . . from supply magazines (B65B 43/46-B65B 43/52 take precedence) [3] |
| B65B 43/46 | 2-Punkt Untergruppe | . . using grippers |

| Symbol | Typ | Titel |
|-------------------|---------------------|---|
| B65B 43/48 | 2-Punkt Untergruppe | . . using reciprocating or oscillating pushers |
| B65B 43/50 | 2-Punkt Untergruppe | . . using rotary tables or turrets |
| B65B 43/52 | 2-Punkt Untergruppe | . . using roller-ways or endless conveyers |
| B65B 43/54 | 2-Punkt Untergruppe | . . Means for supporting containers or receptacles during the filling operation |
| B65B 43/56 | 3-Punkt Untergruppe | . . . movable stepwise to position container or receptacle for the reception of successive increments of contents |
| B65B 43/58 | 4-Punkt Untergruppe | vertically movable |
| B65B 43/59 | 3-Punkt Untergruppe | . . . vertically movable (B65B 43/58 takes precedence) [3] |
| B65B 43/60 | 3-Punkt Untergruppe | . . . rotatable |
| B65B 43/62 | 4-Punkt Untergruppe | about an axis located at the filling position, e.g. the axis of the container or receptacle |
| B65B 45/00 | Hauptgruppe | Apparatus or devices for supporting or holding wrappers during wrapping operation (filling nozzles, funnels, guides B65B 39/00) |
| B65B 47/00 | Hauptgruppe | Apparatus or devices for forming pockets or receptacles in or from sheets, blanks, or webs, comprising essentially a die into which the material is pressed or a folding die through which the material is moved |
| B65B 47/02 | 1-Punkt Untergruppe | . with means for heating the material prior to forming |
| B65B 47/04 | 1-Punkt Untergruppe | . by application of mechanical pressure |
| B65B 47/06 | 2-Punkt Untergruppe | . . using folding dies |
| B65B 47/08 | 1-Punkt Untergruppe | . by application of fluid pressure |
| B65B 47/10 | 2-Punkt Untergruppe | . . by vacuum |
| B65B 49/00 | Hauptgruppe | Devices for folding or bending wrappers around contents |
| B65B 49/02 | 1-Punkt Untergruppe | . Fixed or resiliently-mounted folders, e.g. non-driven rollers |
| B65B 49/04 | 2-Punkt Untergruppe | . . Ploughs or plates with inclined slots or opposed inclined edges |
| B65B 49/06 | 1-Punkt Untergruppe | . Resilient folders, e.g. brushes, diaphragms |
| B65B 49/08 | 1-Punkt Untergruppe | . Reciprocating or oscillating folders |
| B65B 49/10 | 1-Punkt Untergruppe | . Folders movable in closed non-circular paths |
| B65B 49/12 | 1-Punkt Untergruppe | . Rotary folders |
| B65B 49/14 | 1-Punkt Untergruppe | . Folders forming part of, or attached to, conveyers for partially-wrapped articles |
| B65B 49/16 | 1-Punkt Untergruppe | . Pneumatic means, e.g. air jets |
| B65B 51/00 | Hauptgruppe | Devices for, or methods of, sealing or securing package folds or closures, e.g. twisted bag necks |
| B65B 51/02 | 1-Punkt Untergruppe | . Applying adhesives or sealing liquids (activating adhesives by applying heat or pressure B65B 51/10) |
| B65B 51/04 | 1-Punkt Untergruppe | . Applying separate sealing or securing members, e.g. clips (applying separate lids or covers B65B 7/28) |
| B65B 51/05 | 2-Punkt Untergruppe | . . Stapling |
| B65B 51/06 | 2-Punkt Untergruppe | . . Applying adhesive tape (adhesive tape dispensers B65H 35/07) |
| B65B 51/07 | 2-Punkt Untergruppe | . . Sewing or stitching |

| Symbol | Typ | Titel |
|-------------------|---------------------|---|
| B65B 51/08 | 2-Punkt Untergruppe | . . Applying binding material, e.g. to twisted bag necks |
| B65B 51/09 | 1-Punkt Untergruppe | . by deformation of the closure [6] |
| B65B 51/10 | 1-Punkt Untergruppe | . Applying or generating heat or pressure or combinations thereof (B65B 51/09 takes precedence) [6] |
| B65B 51/12 | 2-Punkt Untergruppe | . . by resilient means, e.g. brushes |
| B65B 51/14 | 2-Punkt Untergruppe | . . by reciprocating or oscillating members |
| B65B 51/16 | 2-Punkt Untergruppe | . . by rotary members |
| B65B 51/18 | 2-Punkt Untergruppe | . . by endless bands or chains |
| B65B 51/20 | 2-Punkt Untergruppe | . . by fluid pressure acting directly on folds or on opposed surfaces, e.g. using hot-air jets (shrinking wrappers by heating B65B 53/02) |
| B65B 51/22 | 2-Punkt Untergruppe | . . by friction or ultrasonic or high-frequency electrical means |
| B65B 51/24 | 2-Punkt Untergruppe | . . to produce bead seals (combined with severing by heated wires or rods B65B 61/10) |
| B65B 51/26 | 2-Punkt Untergruppe | . . Devices specially adapted for producing transverse or longitudinal seams in webs or tubes |
| B65B 51/28 | 3-Punkt Untergruppe | . . . Rollers for producing longitudinal and transverse seams simultaneously |
| B65B 51/30 | 3-Punkt Untergruppe | . . . Devices, e.g. jaws, for applying pressure and heat successively, e.g. for subdividing filled tubes (for subdividing filled tubes involving displacement of contents B65B 9/12) |
| B65B 51/32 | 1-Punkt Untergruppe | . Cooling, or cooling and pressing, package closures after heat-sealing |
| B65B 53/00 | Hauptgruppe | Shrinking wrappers, containers, container covers or container cover securing members during or after packaging |
| B65B 53/02 | 1-Punkt Untergruppe | . by heat |
| B65B 53/04 | 2-Punkt Untergruppe | . . supplied by liquids |
| B65B 53/06 | 2-Punkt Untergruppe | . . supplied by gases, e.g. hot-air jets |
| B65B 55/00 | Hauptgruppe | Preserving, protecting, or purifying packages or package contents in association with packaging (by packaging under special atmospheric or gaseous conditions B65B 31/00; devices for placing protecting sheets, plugs, or wads over contents B65B 61/22; if not restricted to packaging A23L, A61L) |
| B65B 55/02 | 1-Punkt Untergruppe | . Sterilising, e.g. of complete packages |
| B65B 55/04 | 2-Punkt Untergruppe | . . Sterilising wrappers or receptacles prior to, or during, packaging |
| B65B 55/06 | 3-Punkt Untergruppe | . . . by heat |
| B65B 55/08 | 3-Punkt Untergruppe | . . . by irradiation |
| B65B 55/10 | 3-Punkt Untergruppe | . . . by liquids or gases (B65B 55/06 takes precedence) |
| B65B 55/12 | 2-Punkt Untergruppe | . . Sterilising contents prior to, or during, packaging |
| B65B 55/14 | 3-Punkt Untergruppe | . . . by heat |
| B65B 55/16 | 3-Punkt Untergruppe | . . . by irradiation |
| B65B 55/18 | 3-Punkt Untergruppe | . . . by liquids or gases (B65B 55/14 takes precedence) |
| B65B 55/19 | 3-Punkt Untergruppe | . . . by adding materials intended to remove free oxygen or to develop inhibitor gases, e.g. vapour-phase inhibitors |

| Symbol | Typ | Titel |
|-------------------|---------------------|---|
| B65B 55/20 | 1-Punkt Untergruppe | . Embedding contents in shock-absorbing media, e.g. plastic foam, granular material |
| B65B 55/22 | 1-Punkt Untergruppe | . Immersing contents in protective liquids |
| B65B 55/24 | 1-Punkt Untergruppe | . Cleaning of, or removing dust from, containers, wrappers, or packaging |
| B65B 57/00 | Hauptgruppe | Automatic control, checking, warning, or safety devices (registering wrapping or container-forming material fed from rolls B65B 41/18; accident-prevention measures applicable for general use F16P; photoelectric cells H01J, H01L; such devices in general, <u>see</u> the relevant classes) |
| B65B 57/02 | 1-Punkt Untergruppe | . responsive to absence, presence, abnormal feed, or misplacement of binding or wrapping material, containers, or packages |
| B65B 57/04 | 2-Punkt Untergruppe | . . and operating to control, or to stop, the feed of such material, containers, or packages |
| B65B 57/06 | 2-Punkt Untergruppe | . . and operating to control, or to stop, the feed of articles or material to be packaged |
| B65B 57/08 | 2-Punkt Untergruppe | . . and operating to stop, or to control the speed of, the machine as a whole |
| B65B 57/10 | 1-Punkt Untergruppe | . responsive to absence, presence, abnormal feed, or misplacement of articles or materials to be packaged |
| B65B 57/12 | 2-Punkt Untergruppe | . . and operating to control, or stop, the feed of wrapping materials, containers, or packages |
| B65B 57/14 | 2-Punkt Untergruppe | . . and operating to control, or stop, the feed of articles or material to be packaged |
| B65B 57/16 | 2-Punkt Untergruppe | . . and operating to stop, or to control the speed of, the machine as a whole |
| B65B 57/18 | 1-Punkt Untergruppe | . causing operation of audible or visible alarm signals |
| B65B 57/20 | 1-Punkt Untergruppe | . Applications of counting devices for controlling the feed of articles (other applications B65B 65/08) |
| B65B 59/00 | Hauptgruppe | Arrangements to enable machines to handle articles of different sizes, to produce packages of different sizes, to vary the contents of packages, or to give access for cleaning or maintenance purposes |
| B65B 59/02 | 1-Punkt Untergruppe | . Arrangements to enable adjustments to be made while the machine is running (weight or volumetric adjustment of material to be packaged B65B 1/30, B65B 3/26) |
| B65B 59/04 | 1-Punkt Untergruppe | . Machines constructed with readily-detachable units or assemblies, e.g. to facilitate maintenance |
| B65B 61/00 | Hauptgruppe | Auxiliary devices, not otherwise provided for, for operating on sheets, blanks, webs, binding material, containers or packages |
| B65B 61/02 | 1-Punkt Untergruppe | . for perforating, scoring, or applying code or date marks on material prior to packaging |
| B65B 61/04 | 1-Punkt Untergruppe | . for severing webs, or for separating joined packages |
| B65B 61/06 | 2-Punkt Untergruppe | . . by cutting |
| B65B 61/08 | 3-Punkt Untergruppe | . . . using rotary cutters |
| B65B 61/10 | 3-Punkt Untergruppe | . . . using heated wires or cutters |
| B65B 61/12 | 2-Punkt Untergruppe | . . by tearing along perforations or lines of weakness |
| B65B 61/14 | 1-Punkt Untergruppe | . for incorporating, or forming and incorporating, handles or suspension means in packages (attaching, or forming and attaching, string handles or tags to tea-bags B65B 29/04) |
| B65B 61/16 | 2-Punkt Untergruppe | . . Forming suspension apertures in packages |
| B65B 61/18 | 1-Punkt Untergruppe | . for applying or incorporating package-opening or unpacking elements, e.g. tear-strips |
| B65B 61/20 | 1-Punkt Untergruppe | . for adding cards, coupons, or other inserts to package contents (adding unpacking elements B65B 61/18; labelling B65C) |

| Symbol | Typ | Titel |
|-------------------|---------------------|---|
| B65B 61/22 | 2-Punkt Untergruppe | . . for placing protecting sheets, plugs, or wads over contents, e.g. cotton-wool in bottles of pills |
| B65B 61/24 | 1-Punkt Untergruppe | . for shaping or reshaping completed packages |
| B65B 61/26 | 1-Punkt Untergruppe | . for marking or coding completed packages |
| B65B 61/28 | 1-Punkt Untergruppe | . for discharging completed packages from machines |
| B65B 63/00 | Hauptgruppe | Auxiliary devices, not otherwise provided for, for operating on articles or materials to be packaged |
| B65B 63/02 | 1-Punkt Untergruppe | . for compressing or compacting articles or materials prior to wrapping or insertion in containers or receptacles (tableting or compressing of powders B30B 11/00) |
| B65B 63/04 | 1-Punkt Untergruppe | . for folding or winding articles, e.g. gloves, stockings (folding or winding webs or filamentary material in general B65H 45/00, B65H 54/00; folding textile articles in connection with laundering preparatory to packaging D06F 89/00) |
| B65B 63/06 | 2-Punkt Untergruppe | . . Forming elongated hanks, e.g. of shoe laces |
| B65B 63/08 | 1-Punkt Untergruppe | . for heating or cooling articles or materials to facilitate packaging |
| B65B 65/00 | Hauptgruppe | Details peculiar to packaging machines and not otherwise provided for; Arrangements of such details |
| B65B 65/02 | 1-Punkt Untergruppe | . Driving gear |
| B65B 65/04 | 1-Punkt Untergruppe | . Mechanisms for converting a continuous rotary motion to intermittent rotary motion, e.g. Geneva drives |
| B65B 65/06 | 1-Punkt Untergruppe | . coated or treated with anti-friction or anti-sticking materials, e.g. polytetrafluoroethylene |
| B65B 65/08 | 1-Punkt Untergruppe | . Devices for counting or registering the number of articles handled, or the number of packages produced by the machine |
| B65B 67/00 | Hauptgruppe | Apparatus or devices facilitating manual packaging operations; Sack holders |
| B65B 67/02 | 1-Punkt Untergruppe | . Packaging of articles or materials in containers |
| B65B 67/04 | 2-Punkt Untergruppe | . . Devices facilitating insertion of single articles, or groups or articles, into bags |
| B65B 67/06 | 2-Punkt Untergruppe | . . Manually-operable devices for closing bag necks, by applying and securing lengths of string, wire, or tape |
| B65B 67/08 | 1-Punkt Untergruppe | . Wrapping of articles |
| B65B 67/10 | 2-Punkt Untergruppe | . . Wrapping-tables |
| B65B 67/12 | 1-Punkt Untergruppe | . Sack holders, i.e. stands or frames with means for supporting sacks in the open condition to facilitate filling with articles or materials |
| B65B 69/00 | Hauptgruppe | Unpacking of articles or materials, not otherwise provided for |