## CPC COOPERATIVE PATENT CLASSIFICATION

# B PERFORMING OPERATIONS; TRANSPORTING

(NOTES omitted)

## **TRANSPORTING**

B65 CONVEYING; PACKING; STORING; HANDLING THIN OR FILAMENTARY MATERIAL

# MACHINES, APPARATUS OR DEVICES FOR, OR METHODS OF, PACKAGING ARTICLES OR MATERIALS; UNPACKING (bundling and pressing devices for cigars A24C 1/44; devices for tensioning and securing binders adapted to be supported by the article or articles to be bound B25B 25/00; applying closure members to bottles, jars or similar containers B67B 1/00-B67B 6/00; concurrent cleaning, filling and closing of bottles B67C 7/00; emptying bottles, jars, cans, casks, barrels or similar containers B67C 9/00)

### NOTE

The term "packaging" should be understood as including mainly the following operations:

filling portable containers or receptacles with materials or small articles to form packages

inserting articles, or groups of articles, into containers or receptacles

closing filled containers or receptacles otherwise than by metal-, glass-, or wood-working operations

enclosing, or partially enclosing, articles or quantities of material, in sheets, strips, blanks, webs, or tubes of thin flexible material, e.g. wrapping

bundling articles, e.g. holding articles together in groups by applying string or wire attaching articles to cards, sheets, or webs

Operations of these types employed in the manufacture of articles other than packages are classified in other appropriate subclasses, e.g. making confectionery products by casting in moulds formed by wrappers A23G, filling ammunition cartridges F42B Methods of packaging which are wholly characterised by the form of the package produced, or the form of the container or packaging-element utilised, are to be classified in B65D rather than in this subclass In the following elaborations, the term "package" is used to mean the end product of a packaging operation, e.g. a filled and closed container, an article enclosed in a wrapper, a group of articles held together by string or wire, a crate of bottles In the following elaborations, the term "materials" is to be understood as embracing matter, or masses of articles, which are to be packaged, as distinct from separate or individual articles Machines, apparatus or methods of general application for packaging articles or materials

## WARNINGS

The following IPC groups are not in the CPC scheme. The subject matter for these IPC groups is classified in the following CPC groups:
 B65B 51/09 covered by B65B 51/00

2. In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

Machines, apparatus or methods of general application for		1/12	• • of screw type
packaging articles or materials		1/14	of centrifugal type
1/00	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,	1/16 1/18 1/20 1/22	<ul> <li>by pneumatic means, e.g. by suction</li> <li>for filling valve-bags</li> <li>Reducing volume of filled material</li> <li>by vibration</li> </ul>
	or jars	1/24	by mechanical compression
1/02	<ul> <li>Machines characterised by the incorporation of means for making the containers or receptacles (from flat, folded, or tubular webs of flexible sheet material <u>B65B 9/00</u>)</li> </ul>	1/26 1/28 1/30	<ul> <li>by pneumatic means, e.g. suction</li> <li>Controlling escape of air or dust from containers or receptacles during filling</li> <li>Devices or methods for controlling or determining</li> </ul>
1/04	<ul> <li>Methods of, or means for, filling the material into the containers or receptacles</li> </ul>	1/32	the quantity or quality or the material fed or filled  • by weighing (check-weighing of filled containers
1/06	by gravity flow		or receptacles <u>B65B 1/46</u> )
1/08 1/10	<ul><li>by vibratory feeders</li><li>by rotary feeders</li></ul>	1/34	Adjusting weight by trickle feed

1/36	<ul> <li>by volumetric devices or methods (checking volume of filled material <u>B65B 1/48</u>)</li> </ul>	5/00	Packaging individual articles in containers or receptacles, e.g. bags, sacks, boxes, cartons, cans,
1/363	• • { with measuring pockets moving in an endless path}	5/02	jars  Machines characterised by incorporation of means
1/366	• • • {about a horizontal axis of symmetry}	3/02	for making the containers or receptacles
1/38	<ul> <li>by pistons co-operating with measuring</li> </ul>	5/022	• • {for making bags}
	chambers	5/024	• • {for making containers from preformed blanks}
1/385	• • • {moving in an endless path}	5/026	• • • {for making trays}
1/40	• • by timing of filling operations	5/028	• • • { for making containers from two or more
1/42	• • • and arresting flow by cut-off means		blanks ( <u>B65B 5/026</u> takes precedence)}
1/44	Checking density of material to be filled	5/04	Packaging single articles
1/46	Check-weighing of filled containers or	5/045	{in bags}
1/48	receptacles  • Checking volume of filled material	5/06	<ul> <li>Packaging groups of articles, the groups being treated as single articles</li> </ul>
3/00	Packaging plastic material, semiliquids, liquids or	5/061	• • {Filled bags}
3/00	mixed solids and liquids, in individual containers	5/062	• • {Confectionery}
	or receptacles, e.g. bags, sacks, boxes, cartons,	5/064	• • {Potato chips}
	cans, or jars	5/065	• • {Gable-topped container}
3/003	• {Filling medical containers such as ampoules, vials, syringes or the like}	5/067	• • {in bags ( <u>B65B 5/061</u> - <u>B65B 5/065</u> take precedence)}
3/006	• • {Related operations, e.g. scoring ampoules}	5/068	• • {in trays ( <u>B65B 5/061</u> - <u>B65B 5/065</u> take
3/02	Machines characterised by the incorporation of		precedence)}
3/022	means for making the containers or receptacles  • • {Making containers by moulding of a}	5/08	<ul> <li>Packaging groups of articles, the articles being individually gripped or guided for transfer to the</li> </ul>
	thermoplastic material}	5/10	containers or receptacles
3/025	• • {Making parallelepipedal containers from a single carton blank}	5/10	Filling containers or receptacles progressively or in stages by introducing successive articles, or layers
3/027	<ul> <li>{Making containers from separate body and end- parts}</li> </ul>	5/101	of articles  • {by gravity ( <u>B65B 5/12</u> and <u>B65B 5/108</u> take}
3/04	• Methods of, or means for, filling the material into		precedence)}
	the containers or receptacles	5/103	• • • {for packaging pills or tablets}
3/045	• • {for filling flexible containers having a filling and	5/105	• • {by grippers ( <u>B65B 5/12</u> and <u>B65B 5/108</u> take
	dispensing spout, e.g. containers of the "bag-in-box"-type}	5/106	precedence)} • • {by pushers ( <u>B65B 5/12</u> and <u>B65B 5/108</u> take
3/06	• • by gravity flow	5/100	precedence)}
3/08	• • by screw-type feeders	5/108	<ul> <li>{ Article support means temporarily arranged in the container}</li> </ul>
3/10	<ul> <li>by application of pressure to material (by screw- type feeders <u>B65B 3/08</u>)</li> </ul>	5/12	Introducing successive articles, e.g. confectionery products, of different shape or size in
3/12	• • • mechanically, e.g. by pistons or pumps		predetermined positions
3/14	pneumatically		
3/16	• for filling collapsible tubes (for filling valve bags	7/00	Closing containers or receptacles after filling
2/17	<u>B65B 3/17)</u>	7/01	<ul> <li>Machines characterised by incorporation of means for making the closures before applying</li> </ul>
3/17	• for filling valve bags	7/02	Closing containers or receptacles deformed by, or
3/18	<ul> <li>Controlling escape of air from containers or receptacles during filling</li> </ul>	1/02	taking-up shape, of, contents, e.g. bags, sacks
3/22	Defoaming liquids in connection with filling	7/025	• • {Closing valve bags}
3/24	Topping-up containers or receptacles to ensure	7/04	<ul> <li>by tucking-in mouth portion to form two flaps</li> </ul>
	complete filling	7/06	and subsequently folding-down  • by collapsing mouth portion, e.g. to form a single
3/26	Methods or devices for controlling the quantity of the material fed or filled		flap
3/28	• by weighing	7/08	and folding
3/30	by volumetric measurement	7/10	and rolling-in
3/305	• • • { with measuring pockets moving in an endless	7/12	and twisting
3/32	path} by pistons co-operating with measuring	7/14	Closing collapsible or resilient tubes, e.g. for tooth paste, for lighter fuel
3/323	chambers { with measuring chambers travelling in an	7/16	Closing semi-rigid or rigid containers or receptacles not deformed by, or not taking-up shape of,  contents of house or certains.
2/226	endless path}	7/161	contents, e.g. boxes or cartons
3/326	• • • (for dosing several products to be mixed)	7/161 7/162	<ul><li>. {Sealing filled ampoules}</li><li>. {by feeding web material to securing means}</li></ul>
3/34	by timing of filling operations	7/162 7/164	<ul><li>• { by feeding web material to securing means }</li><li>• • { Securing by heat-sealing }</li></ul>
3/36	and arresting flow by cut-off means	7/164	<ul><li> {Securing by heat-searing}</li><li> {Securing by deformation of the web material}</li></ul>
		7/165 7/167	<ul><li> {Securing by deformation of the web material}</li><li> {Securing by heat-shrinking}</li></ul>
		//10/	• • • {Securing by near-similaring}

7/168	• • {by applying and securing double closures}	9/08	in a web folded and sealed transversely to form
7/18	• • by collapsing mouth portion and subsequently folding-down or securing flaps		pockets which are subsequently filled and then closed by sealing
7/20	by folding-down preformed flaps		NOTE
7/22	and inserting flap portions between contents and wall		If an invention involves both continuous and
7/24	and interengaging tongue and slot closures		intermittent web motion, it is classified in both groups <u>B65B 9/087</u> and <u>B65B 9/093</u> .
7/26	by closing hinged lids		
7/28	<ul> <li>by applying separate preformed closures, e.g. lids, covers</li> </ul>	9/087 9/093	<ul><li> the web advancing continuously</li><li> the web having intermittent motion</li></ul>
7/2807	• • • {Feeding closures}	9/10	• Enclosing successive articles, or quantities of
7/2814	• • • {the closures being interconnected}	<i>3,</i> 10	material, in preformed tubular webs, or in webs
7/2821	• • • {applying plugs or threadless stoppers (for bottles or jars <u>B67B 1/04</u> )}		formed into tubes around filling nozzles, e.g. extruded tubular webs
7/2828	• • { (inserting and rotating screw stoppers (for bottles or jars <u>B67B 1/06</u> )}	9/12	• • Subdividing filled tubes to form two or more
7/2835	• • { applying and rotating preformed threaded caps		packages by sealing or securing involving displacement of contents
7/2842	<ul> <li>(for bottles or jars <u>B67B 3/20</u>)}</li> <li> {Securing closures on containers (in general</li> </ul>	9/13	<ul> <li>the preformed tubular webs being supplied in a flattened state</li> </ul>
	<u>B65B 51/00</u> )}	9/135	• • • {for palletised loads}
7/285	• • • {by deformation of the closure}	9/14	• • Devices for distending tubes supplied in the
7/2857	• • • • { and the container rim }		flattened state
7/2864	• • • {by adhesive tape}	9/15	• the preformed tubular webs being stored on filling
7/2871	· · · · {by gluing}	0.440	nozzles
7/2878	• • • {by heat-sealing}	9/18	Devices for storing tubular webs
7/2885	• • • {by heat-shrinking (in general <u>B65B 53/02</u> )}	9/20	• • the webs being formed into tubes in situ around
7/2892	• • • {by deformation of the container rim}		the filling nozzles
9/00	Enclosing successive articles, or quantities of		NOTE
	material, e.g. liquids or semiliquids, in flat,		If an invention involves both continuous and
	folded, or tubular webs of flexible sheet material; Subdividing filled flexible tubes to form packages		intermittent web motion, it is classified in both groups <u>B65B 9/207</u> and <u>B65B 9/213</u> .
9/02	folded, or tubular webs of flexible sheet material; Subdividing filled flexible tubes to form packages  Enclosing successive articles, or quantities of	9/2007	intermittent web motion, it is classified in both groups <u>B65B 9/207</u> and <u>B65B 9/213</u> .
	folded, or tubular webs of flexible sheet material; Subdividing filled flexible tubes to form packages  Enclosing successive articles, or quantities of material between opposed webs	9/2007	<ul> <li>intermittent web motion, it is classified in both groups <u>B65B 9/207</u> and <u>B65B 9/213</u>.</li> <li> {Means for stripping or squeezing filled tubes</li> </ul>
9/02 9/023	<ul> <li>folded, or tubular webs of flexible sheet material;</li> <li>Subdividing filled flexible tubes to form packages</li> <li>Enclosing successive articles, or quantities of material between opposed webs</li> <li>• {Packaging fluent material (<u>B65B 9/04</u> takes</li> </ul>	9/2007	<ul> <li>intermittent web motion, it is classified in both groups <u>B65B 9/207</u> and <u>B65B 9/213</u>.</li> <li>• • {Means for stripping or squeezing filled tubes prior to sealing to remove air or products from</li> </ul>
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9/023	folded, or tubular webs of flexible sheet material; Subdividing filled flexible tubes to form packages  Enclosing successive articles, or quantities of material between opposed webs  Packaging fluent material (B65B 9/04 takes precedence)  the webs forming a curtain  one or both webs being formed with pockets for	9/2014	<ul> <li>intermittent web motion, it is classified in both groups B65B 9/207 and B65B 9/213.</li> <li> {Means for stripping or squeezing filled tubes prior to sealing to remove air or products from sealing area}</li> <li> {Tube advancing means}</li> </ul>
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9/023 9/026 9/04 9/042 9/045 2009/047 9/06	<ul> <li>folded, or tubular webs of flexible sheet material;</li> <li>Subdividing filled flexible tubes to form packages</li> <li>Enclosing successive articles, or quantities of material between opposed webs</li> <li>{Packaging fluent material (B65B 9/04 takes precedence)}</li> <li>{the webs forming a curtain}</li> <li>one or both webs being formed with pockets for the reception of the articles, or of the quantities of material</li> <li>{for fluent material}</li> <li>{for single articles, e.g. tablets}</li> <li>{Rotary pocket formers}</li> <li>Enclosing successive 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</li> <li>NOTE</li> <li>If an invention involves both continuous and intermittent web motion, it is classified in both groups B65B 9/067 and B65B 9/073.</li> <li>{Forming shoulders}</li> <li>the web advancing continuously (B65B 9/08</li> </ul>	9/2014 9/2021 9/2028 9/2035 9/2042 9/2049	<ul> <li>intermittent web motion, it is classified in both groups B65B 9/207 and B65B 9/213.</li> <li>. • {Means for stripping or squeezing filled tubes prior to sealing to remove air or products from sealing area}</li> <li>. • {Tube advancing means}</li> <li>. • {combined with longitudinal welding devices}</li> <li>. • {Rollers or belts}</li> <li>. • {Tube guiding means}</li> <li>. • {Means for altering the cross-section of the tube filling opening prior to transversal sealing, e.g. tube spreading devices (subdividing filled tubes to form two or more packages by sealing involving displacement of contents B65B 9/12)}</li> <li>. • {Package shaping devices acting on filled tubes prior to sealing the filling opening (shaping or reshaping completed packages B65B 61/24)}</li> <li>. • {Machines for packages of special type or form}</li> <li>. • • {The webs being spirally wound around the filling nozzle}</li> <li>. • the web advancing continuously (B65B 9/22</li> </ul>
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11/00	Wrapping, e.g. partially or wholly enclosing, articles or quantities of material, in strips, sheets	11/44	the ends of the tube being subsequently twisted
	<b>or blanks, of flexible material</b> (bundling articles by applying narrow strips or bands of flexible material B65B 13/00)	11/46	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
2011/002	• {Prestretching mechanism in wrapping machines}		channel by folding or twisting
11/004	<ul><li>{in blanks, e.g. sheets precut and creased for folding }</li></ul>	11/48	<ul> <li>Enclosing articles, or quantities of material, by folding a wrapper, e.g. a pocketed wrapper, and</li> </ul>
11/006	<ul> <li>{Helical strip wrapping combined with roping}</li> </ul>		securing its opposed free margins to enclose
11/008	• {by webs revolving around articles moved along the	11/50	contents
11/02	<ul> <li>axis of revolution}</li> <li>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 <u>B65B 11/48</u>; by</li> </ul>	11/50 11/52	<ul> <li>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 <u>B65B 47/00</u>)</li> <li>one sheet being rendered plastic, e.g. by heating,</li> </ul>
	disposing contents between two sheets and securing their opposed free margins <u>B65B 11/50</u> )		and forced by fluid pressure, e.g. vacuum, into engagement with the other sheet and contents,
11/025	• • {by webs revolving around stationary articles}	11/54	e.g. skin- {, blister-, or bubble-} packaging
11/04	<ul> <li>the articles being rotated</li> </ul>	11/54	• Wrapping by causing the wrapper to embrace one
11/045	• • {by rotating platforms supporting the articles}		end and all sides of the contents, and closing the
11/06	<ul> <li>Wrapping articles, or quantities of material, by conveying wrapper and contents in {common}</li> </ul>	11/56	wrapper onto the opposite end by forming regular or irregular pleats  Rolling articles with wrappers along a supporting
	defined paths	11/30	surface
11/08	• in a single straight path	11/58	Applying two or more wrappers, e.g. in succession
11/10	• • • to fold the wrappers in tubular form about	11/585	• • {to stacked articles, e.g. pallettised loads}
11/105	contents		
11/105	• • • { the axis of the tube being parallel to the conveying direction }	13/00	Bundling articles
11/12	and then to form closing folds of similar form at opposite ends of the tube	13/02	<ul> <li>Applying and securing binding material around articles or groups of articles, e.g. using strings, wires, strips, bands or tapes</li> </ul>
11/14	• • • the ends of the tube being subsequently twisted	13/022	{Applying preformed bands of continuous-ring
11/16	to fold the wrappers in channel form about	12/025	form, e.g. elastic }
11/10	contents and then to close the ends of the	13/025	• {Hand-held tools}
	channel by folding and finally the mouth of the channel by folding or twisting	13/027	• • • {for applying straps having preformed connecting means, e.g. cable ties}
11/18	• • in two or more straight paths	13/04	• with means for guiding the binding material
11/20	• • • to fold the wrappers in tubular form about	12/06	around the articles prior to severing from supply
11,20	contents	13/06	Stationary ducts or channels
11/22	• • • and then to form closing folds of similar form at opposite ends of the tube	13/08	Single guide or carrier for the free end of material movable part-away around articles from one side only
11/24	• • • the ends of the tube being subsequently twisted	13/10	Carriers travelling completely around the articles while holding the free end of material
11/26	to fold the wrappers in channel form about	13/12	attached to rotating rings
	contents and then to close the ends of the channel by folding and finally the mouth of the	13/14	Pairs of carriers or guides movable around opposite sides of the articles
	channel by folding or twisting	13/16	with means for severing the binding material from
11/28	• in a curved path, e.g. on rotary tables or turrets		supply and then applying it around the articles
11/30	• • • to fold the wrappers in tubular form about contents	13/18	<ul> <li>Details of, or auxiliary devices used in, bundling machines {or bundling tools}</li> </ul>
11/32	• • • • and then to form closing folds of similar form at opposite ends of the tube	13/181	<ul> <li>{applying edge protecting members during bundling}</li> </ul>
11/34	• • • the ends of the tube being subsequently	13/182	• • {Affixing labels during bundling}
44.0-	twisted	13/183	• • {Load orienting means}
11/36	to fold the wrappers in channel form about	13/184	{Strap accumulators}
	contents and then to close the ends of the	13/185	• • {Details of tools ( <u>B65B 13/24</u> takes precedence)}
	channel by folding and finally the mouth of the channel by folding or twisting	13/186	• • • {Supports or tables facilitating tensioning
11/38	in a combination of straight and curved paths		operations}
11/38	<ul> <li>in a combination of straight and curved paths</li> <li>to fold the wrappers in tubular form about</li> </ul>	13/187	{Motor means}
11/ <del>4</del> U	contents	13/188	{pneumatic or hydraulic}
11/42	and then to form closing folds of similar	13/189	• • • • {using explosives}
11/72	form at opposite ends of the tube		

13/20	• • Means for compressing or compacting bundles	19/221	• • • {in one or more straight paths (B65B 19/24
12/22	prior to bundling	10/000	takes precedence)}
13/22	Means for controlling tension of binding means	19/223	• • • {in a curved path; in a combination of straight
13/24	Securing ends of binding material		and curved paths, e.g. on rotary tables or
13/26	by knotting		other endless conveyors ( <u>B65B 19/24</u> takes
13/265	• • • {Hand tools}	10/225	precedence)}
13/28	• • by twisting	19/225	{the conveyors having continuous
13/285	• • • {Hand tools}		movement}
13/30	by deforming the overlapping ends of the strip	19/226	• • • { using endless conveyors having pockets,
	or band		each pocket being provided with separate
13/305	• • • {Hand tools}		members, e.g. folders ( <u>B65B 19/225</u> takes
13/32	• • • by welding, soldering, or heat-sealing; by		precedence)}
	applying adhesive	19/228	• • • {Preparing and feeding blanks}
13/322	{Friction welding}	19/24	using hollow mandrels through which groups
13/325	• • • • {Ultrasonic welding}		of cigarettes are fed
13/327	{Hand tools}	19/245	• • • {carried by continuously driven endless
13/34	<ul> <li>by applying separate securing members, e.g.</li> </ul>		conveyors}
13/34	deformable clips	19/26	<ul> <li>Machines specially adapted for packaging cigars</li> </ul>
13/345	{Hand tools}	19/28	<ul> <li>Control devices for cigarette or cigar packaging</li> </ul>
13/343	· · · · {mand tools}		machines
15/00	Attaching articles to cards, sheets, strings, webs, or	19/30	<ul> <li>responsive to presence of faulty articles, e.g.</li> </ul>
	other carriers		incorrectly filled cigarettes
15/02	<ul> <li>Attaching small articles, e.g. buttons, to cards</li> </ul>	19/32	<ul> <li>responsive to incorrect grouping of articles or to</li> </ul>
15/04	. Attaching a series of articles, e.g. small electrical		incorrect filling of packages
	components, to a continuous web {(ammunition	19/34	<ul> <li>Packaging other rod-shaped articles, e.g. sausages,</li> </ul>
	filling F42B)}		macaroni, spaghetti, drinking straws, welding
15/00			electrodes
17/00	Other machines, apparatus, or methods for packaging articles or materials	21/00	Packaging or unpacking of bottles (bundling bottles
17/02		21/00	B65B 27/04)
17/02	Joining articles, e.g. cans, directly to each other for	21/02	• in or from preformed containers, e.g. crates
17/025	convenience of storage, transport, or handling	21/025	• • • • • • • • • • • • • • • • • • •
17/025	• • (the articles being joined by a top carrier	21/023	formation}
	element}		ioiniation)
	,	21/04	Arranging assambling fanding or orientating
Machines a		21/04	. Arranging, assembling, feeding, or orientating
	pparatus or methods adapted for packaging articles	21/04	the bottles prior to introduction into, or after
or materials	pparatus or methods adapted for packaging articles presenting special problems, or for special packaging	21/04	the bottles prior to introduction into, or after removal from, containers {( <u>B65B 21/025</u> takes
or materials operations;	pparatus or methods adapted for packaging articles presenting special problems, or for special packaging Unpacking bottles or eggs		the bottles prior to introduction into, or after removal from, containers {(B65B 21/025 takes precedence)}
or materials	pparatus or methods adapted for packaging articles presenting special problems, or for special packaging Unpacking bottles or eggs Packaging rod-shaped or tubular articles	21/06	the bottles prior to introduction into, or after removal from, containers {(B65B 21/025 takes precedence)}  Forming groups of bottles
or materials operations;	pparatus or methods adapted for packaging articles presenting special problems, or for special packaging Unpacking bottles or eggs  Packaging rod-shaped or tubular articles susceptible to damage by abrasion or pressure, e.g.		the bottles prior to introduction into, or after removal from, containers {(B65B 21/025 takes precedence)}  • Forming groups of bottles  • Introducing or removing single bottles, or groups
or materials operations;	pparatus or methods adapted for packaging articles presenting special problems, or for special packaging Unpacking bottles or eggs  Packaging rod-shaped or tubular articles susceptible to damage by abrasion or pressure, e.g. cigarettes, cigars, macaroni, spaghetti, drinking	21/06	the bottles prior to introduction into, or after removal from, containers {(B65B 21/025 takes precedence)}  • Forming groups of bottles  • Introducing or removing single bottles, or groups of bottles, e.g. for progressive filling or emptying
or materials operations; 1 19/00	pparatus or methods adapted for packaging articles presenting special problems, or for special packaging Unpacking bottles or eggs  Packaging rod-shaped or tubular articles susceptible to damage by abrasion or pressure, e.g. cigarettes, cigars, macaroni, spaghetti, drinking straws or welding electrodes	21/06 21/08	the bottles prior to introduction into, or after removal from, containers {(B65B 21/025 takes precedence)}  • • Forming groups of bottles  • Introducing or removing single bottles, or groups of bottles, e.g. for progressive filling or emptying of containers
or materials operations; 1 19/00	pparatus or methods adapted for packaging articles presenting special problems, or for special packaging Unpacking bottles or eggs  Packaging rod-shaped or tubular articles susceptible to damage by abrasion or pressure, e.g. cigarettes, cigars, macaroni, spaghetti, drinking straws or welding electrodes . Packaging cigarettes	21/06 21/08 21/10	the bottles prior to introduction into, or after removal from, containers {(B65B 21/025 takes precedence)}  Forming groups of bottles  . Introducing or removing single bottles, or groups of bottles, e.g. for progressive filling or emptying of containers  using gravity flow
or materials operations; 1 19/00 19/02 19/025	pparatus or methods adapted for packaging articles presenting special problems, or for special packaging Unpacking bottles or eggs  Packaging rod-shaped or tubular articles susceptible to damage by abrasion or pressure, e.g. cigarettes, cigars, macaroni, spaghetti, drinking straws or welding electrodes  Packaging cigarettes  In webs of flexible sheet material	21/06 21/08	the bottles prior to introduction into, or after removal from, containers {(B65B 21/025 takes precedence)}  • Forming groups of bottles  • Introducing or removing single bottles, or groups of bottles, e.g. for progressive filling or emptying of containers  • using gravity flow  • using grippers engaging bottles, e.g. bottle
or materials operations; 1 19/00	pparatus or methods adapted for packaging articles presenting special problems, or for special packaging Unpacking bottles or eggs  Packaging rod-shaped or tubular articles susceptible to damage by abrasion or pressure, e.g. cigarettes, cigars, macaroni, spaghetti, drinking straws or welding electrodes  Packaging cigarettes  Packaging cigarettes  Arranging, feeding, or orientating the cigarettes	21/06 21/08 21/10 21/12	the bottles prior to introduction into, or after removal from, containers {(B65B 21/025 takes precedence)}  • Forming groups of bottles  • Introducing or removing single bottles, or groups of bottles, e.g. for progressive filling or emptying of containers  • using gravity flow  • using grippers engaging bottles, e.g. bottle necks
or materials operations; 1 19/00 19/02 19/025	pparatus or methods adapted for packaging articles presenting special problems, or for special packaging Unpacking bottles or eggs  Packaging rod-shaped or tubular articles susceptible to damage by abrasion or pressure, e.g. cigarettes, cigars, macaroni, spaghetti, drinking straws or welding electrodes  Packaging cigarettes  in webs of flexible sheet material  Arranging, feeding, or orientating the cigarettes  Turning individual cigarettes to present printed	21/06 21/08 21/10	the bottles prior to introduction into, or after removal from, containers {(B65B 21/025 takes precedence)}  . Forming groups of bottles  . Introducing or removing single bottles, or groups of bottles, e.g. for progressive filling or emptying of containers  . using gravity flow  . using grippers engaging bottles, e.g. bottle necks  . Introducing or removing groups of bottles, for
or materials operations; 1 19/00 19/02 19/025 19/04	pparatus or methods adapted for packaging articles presenting special problems, or for special packaging Unpacking bottles or eggs  Packaging rod-shaped or tubular articles susceptible to damage by abrasion or pressure, e.g. cigarettes, cigars, macaroni, spaghetti, drinking straws or welding electrodes  Packaging cigarettes  Packaging cigarettes  Arranging, feeding, or orientating the cigarettes	21/06 21/08 21/10 21/12 21/14	the bottles prior to introduction into, or after removal from, containers {(B65B 21/025 takes precedence)}  • Forming groups of bottles  • Introducing or removing single bottles, or groups of bottles, e.g. for progressive filling or emptying of containers  • using gravity flow  • using grippers engaging bottles, e.g. bottle necks  • Introducing or removing groups of bottles, for filling or emptying containers in one operation
or materials operations; 1 19/00 19/02 19/025 19/04	pparatus or methods adapted for packaging articles presenting special problems, or for special packaging Unpacking bottles or eggs  Packaging rod-shaped or tubular articles susceptible to damage by abrasion or pressure, e.g. cigarettes, cigars, macaroni, spaghetti, drinking straws or welding electrodes  Packaging cigarettes  in webs of flexible sheet material  Arranging, feeding, or orientating the cigarettes  Turning individual cigarettes to present printed	21/06 21/08 21/10 21/12 21/14 21/16	the bottles prior to introduction into, or after removal from, containers {(B65B 21/025 takes precedence)}  Forming groups of bottles  . Introducing or removing single bottles, or groups of bottles, e.g. for progressive filling or emptying of containers  using gravity flow  using grippers engaging bottles, e.g. bottle necks  . Introducing or removing groups of bottles, for filling or emptying containers in one operation  using gravity flow
or materials operations; 1 19/00 19/02 19/025 19/04 19/06	pparatus or methods adapted for packaging articles presenting special problems, or for special packaging Unpacking bottles or eggs  Packaging rod-shaped or tubular articles susceptible to damage by abrasion or pressure, e.g. cigarettes, cigars, macaroni, spaghetti, drinking straws or welding electrodes  Packaging cigarettes  In webs of flexible sheet material  Arranging, feeding, or orientating the cigarettes  Turning individual cigarettes to present printed marks in desired position  Positioning oval cigarettes in overlapped arrangement	21/06 21/08 21/10 21/12 21/14	the bottles prior to introduction into, or after removal from, containers {(B65B 21/025 takes precedence)}  • Forming groups of bottles  • Introducing or removing single bottles, or groups of bottles, e.g. for progressive filling or emptying of containers  • using gravity flow  • using grippers engaging bottles, e.g. bottle necks  • Introducing or removing groups of bottles, for filling or emptying containers in one operation  • using gravity flow  • using grippers engaging bottles, e.g. bottle
or materials operations; 1 19/00 19/02 19/025 19/04 19/06	pparatus or methods adapted for packaging articles presenting special problems, or for special packaging Unpacking bottles or eggs  Packaging rod-shaped or tubular articles susceptible to damage by abrasion or pressure, e.g. cigarettes, cigars, macaroni, spaghetti, drinking straws or welding electrodes  Packaging cigarettes  in webs of flexible sheet material  in Arranging, feeding, or orientating the cigarettes  Turning individual cigarettes to present printed marks in desired position  Positioning oval cigarettes in overlapped arrangement  Arranging cigarettes in layers each comprising	21/06 21/08 21/10 21/12 21/14 21/16 21/18	the bottles prior to introduction into, or after removal from, containers {(B65B 21/025 takes precedence)}  • Forming groups of bottles  • Introducing or removing single bottles, or groups of bottles, e.g. for progressive filling or emptying of containers  • using gravity flow  • using grippers engaging bottles, e.g. bottle necks  • Introducing or removing groups of bottles, for filling or emptying containers in one operation  • using gravity flow  • using grippers engaging bottles, e.g. bottle necks
or materials operations; 1 19/00 19/02 19/025 19/04 19/06	pparatus or methods adapted for packaging articles presenting special problems, or for special packaging Unpacking bottles or eggs  Packaging rod-shaped or tubular articles susceptible to damage by abrasion or pressure, e.g. cigarettes, cigars, macaroni, spaghetti, drinking straws or welding electrodes  Packaging cigarettes  in webs of flexible sheet material  Arranging, feeding, or orientating the cigarettes  Turning individual cigarettes to present printed marks in desired position  Positioning oval cigarettes in overlapped arrangement  Arranging cigarettes in layers each comprising a predetermined number	21/06 21/08 21/10 21/12 21/14 21/16 21/18 21/183	the bottles prior to introduction into, or after removal from, containers {(B65B 21/025 takes precedence)}  Forming groups of bottles  . Introducing or removing single bottles, or groups of bottles, e.g. for progressive filling or emptying of containers  using gravity flow  using grippers engaging bottles, e.g. bottle necks  . Introducing or removing groups of bottles, for filling or emptying containers in one operation  using gravity flow  using gravity flow  using grippers engaging bottles, e.g. bottle necks  {the grippers moving in an endless path}
or materials operations; 1 19/00 19/02 19/025 19/04 19/06	pparatus or methods adapted for packaging articles presenting special problems, or for special packaging Unpacking bottles or eggs  Packaging rod-shaped or tubular articles susceptible to damage by abrasion or pressure, e.g. cigarettes, cigars, macaroni, spaghetti, drinking straws or welding electrodes  Packaging cigarettes  in webs of flexible sheet material  Arranging, feeding, or orientating the cigarettes  Turning individual cigarettes to present printed marks in desired position  Positioning oval cigarettes in overlapped arrangement  Arranging cigarettes in layers each comprising a predetermined number  using rotary drums for withdrawal of	21/06 21/08 21/10 21/12 21/14 21/16 21/18 21/183 21/186	the bottles prior to introduction into, or after removal from, containers {(B65B 21/025 takes precedence)}  Forming groups of bottles  . Introducing or removing single bottles, or groups of bottles, e.g. for progressive filling or emptying of containers  using gravity flow  using grippers engaging bottles, e.g. bottle necks  . Introducing or removing groups of bottles, for filling or emptying containers in one operation  using gravity flow  using gravity flow  using gravity flow  (the grippers engaging bottles, e.g. bottle necks  {the grippers moving in an endless path}  {Inflatable grippers}
or materials operations; 1 19/00 19/02 19/025 19/04 19/06 19/08	pparatus or methods adapted for packaging articles presenting special problems, or for special packaging Unpacking bottles or eggs  Packaging rod-shaped or tubular articles susceptible to damage by abrasion or pressure, e.g. cigarettes, cigars, macaroni, spaghetti, drinking straws or welding electrodes  Packaging cigarettes  in webs of flexible sheet material  Arranging, feeding, or orientating the cigarettes  Turning individual cigarettes to present printed marks in desired position  Positioning oval cigarettes in overlapped arrangement  Arranging cigarettes in layers each comprising a predetermined number  using rotary drums for withdrawal of successive layers from a hopper}	21/06 21/08 21/10 21/12 21/14 21/16 21/18 21/183 21/186 21/20	the bottles prior to introduction into, or after removal from, containers {(B65B 21/025 takes precedence)}  . Forming groups of bottles  . Introducing or removing single bottles, or groups of bottles, e.g. for progressive filling or emptying of containers  . using gravity flow  . using grippers engaging bottles, e.g. bottle necks  . Introducing or removing groups of bottles, for filling or emptying containers in one operation  . using gravity flow  . using gravity flow  . using gravity flow  . using gravity flow  . using grippers engaging bottles, e.g. bottle necks  {the grippers moving in an endless path}  {Inflatable grippers}  with means for varying spacing of bottles
or materials operations; 1 19/00 19/02 19/025 19/04 19/06 19/08	pparatus or methods adapted for packaging articles presenting special problems, or for special packaging Unpacking bottles or eggs  Packaging rod-shaped or tubular articles susceptible to damage by abrasion or pressure, e.g. cigarettes, cigars, macaroni, spaghetti, drinking straws or welding electrodes  Packaging cigarettes  fin webs of flexible sheet material  Arranging, feeding, or orientating the cigarettes  Turning individual cigarettes to present printed marks in desired position  Positioning oval cigarettes in overlapped arrangement  Arranging cigarettes in layers each comprising a predetermined number  under the distribution of withdrawal of successive layers from a hopper  Inserting the cigarettes, or wrapped groups	21/06 21/08 21/10 21/12 21/14 21/16 21/18 21/183 21/186	the bottles prior to introduction into, or after removal from, containers {(B65B 21/025 takes precedence)}  . Forming groups of bottles  . Introducing or removing single bottles, or groups of bottles, e.g. for progressive filling or emptying of containers  . using gravity flow  . using grippers engaging bottles, e.g. bottle necks  . Introducing or removing groups of bottles, for filling or emptying containers in one operation  . using gravity flow  . using grippers engaging bottles, e.g. bottle necks  {the grippers moving in an endless path}  {Inflatable grippers}  with means for varying spacing of bottles  by inverting and raising or lowering the
or materials operations; 1 19/00 19/02 19/025 19/04 19/06 19/08 19/10	pparatus or methods adapted for packaging articles presenting special problems, or for special packaging Unpacking bottles or eggs  Packaging rod-shaped or tubular articles susceptible to damage by abrasion or pressure, e.g. cigarettes, cigars, macaroni, spaghetti, drinking straws or welding electrodes  Packaging cigarettes  in webs of flexible sheet material  Arranging, feeding, or orientating the cigarettes  Turning individual cigarettes to present printed marks in desired position  Positioning oval cigarettes in overlapped arrangement  Arranging cigarettes in layers each comprising a predetermined number  usual suscessive layers from a hopper  Inserting the cigarettes, or wrapped groups thereof, into preformed containers	21/06 21/08 21/10 21/12 21/14 21/16 21/18 21/183 21/186 21/20 21/22	the bottles prior to introduction into, or after removal from, containers {(B65B 21/025 takes precedence)}  • Forming groups of bottles  • Introducing or removing single bottles, or groups of bottles, e.g. for progressive filling or emptying of containers  • using gravity flow  • using grippers engaging bottles, e.g. bottle necks  • Introducing or removing groups of bottles, for filling or emptying containers in one operation  • using gravity flow  • using grippers engaging bottles, e.g. bottle necks  • using grippers moving in an endless path}  • o {the grippers moving in an endless path}  • o thing the grippers}  • o with means for varying spacing of bottles  • by inverting and raising or lowering the container relative to bottles
or materials operations; 1 19/00 19/02 19/025 19/04 19/06 19/08 19/10	pparatus or methods adapted for packaging articles presenting special problems, or for special packaging Unpacking bottles or eggs  Packaging rod-shaped or tubular articles susceptible to damage by abrasion or pressure, e.g. cigarettes, cigars, macaroni, spaghetti, drinking straws or welding electrodes  Packaging cigarettes  In webs of flexible sheet material  Arranging, feeding, or orientating the cigarettes  Turning individual cigarettes to present printed marks in desired position  Positioning oval cigarettes in overlapped arrangement  Arranging cigarettes in layers each comprising a predetermined number  under the distribution of successive layers from a hopper  Inserting the cigarettes, or wrapped groups thereof, into preformed containers  into pocket boxes, e.g. boxes of rectangular	21/06 21/08 21/10 21/12 21/14 21/16 21/18 21/183 21/186 21/20 21/22 21/24	the bottles prior to introduction into, or after removal from, containers {(B65B 21/025 takes precedence)}  . Forming groups of bottles  . Introducing or removing single bottles, or groups of bottles, e.g. for progressive filling or emptying of containers  . using gravity flow  . using grippers engaging bottles, e.g. bottle necks  . Introducing or removing groups of bottles, for filling or emptying containers in one operation  . using gravity flow  . using grippers engaging bottles, e.g. bottle necks  {the grippers moving in an endless path}  {Inflatable grippers}  with means for varying spacing of bottles  by inverting and raising or lowering the container relative to bottles  . Enclosing bottles in wrappers
or materials operations; 1 19/00 19/02 19/025 19/04 19/06 19/08 19/10 19/105	pparatus or methods adapted for packaging articles presenting special problems, or for special packaging Unpacking bottles or eggs  Packaging rod-shaped or tubular articles susceptible to damage by abrasion or pressure, e.g. cigarettes, cigars, macaroni, spaghetti, drinking straws or welding electrodes  Packaging cigarettes  In webs of flexible sheet material  Arranging, feeding, or orientating the cigarettes  Turning individual cigarettes to present printed marks in desired position  Positioning oval cigarettes in overlapped arrangement  Arranging cigarettes in layers each comprising a predetermined number  Successive layers from a hopper  Inserting the cigarettes, or wrapped groups thereof, into preformed containers  into pocket boxes, e.g. boxes of rectangular form closed at one end by a flap adapted to be	21/06 21/08 21/10 21/12 21/14 21/16 21/18 21/183 21/186 21/20 21/22 21/24 21/242	the bottles prior to introduction into, or after removal from, containers {(B65B 21/025 takes precedence)}  Forming groups of bottles  . Introducing or removing single bottles, or groups of bottles, e.g. for progressive filling or emptying of containers  using gravity flow  using grippers engaging bottles, e.g. bottle necks  . Introducing or removing groups of bottles, for filling or emptying containers in one operation  using gravity flow  using gravity flow  using grippers engaging bottles, e.g. bottle necks  {the grippers moving in an endless path}  {Inflatable grippers}  with means for varying spacing of bottles  by inverting and raising or lowering the container relative to bottles  . Enclosing bottles in wrappers  . {in collapsed carton sleeves}
or materials operations; 19/00  19/00  19/02 19/025 19/04 19/06  19/08  19/10  19/105 19/12 19/14	pparatus or methods adapted for packaging articles presenting special problems, or for special packaging Unpacking bottles or eggs  Packaging rod-shaped or tubular articles susceptible to damage by abrasion or pressure, e.g. cigarettes, cigars, macaroni, spaghetti, drinking straws or welding electrodes  Packaging cigarettes  in webs of flexible sheet material  in webs of flexible sheet material  in Arranging, feeding, or orientating the cigarettes  in Turning individual cigarettes to present printed marks in desired position  in Positioning oval cigarettes in overlapped arrangement  in Arranging cigarettes in layers each comprising a predetermined number  in Successive layers from a hopper  in Inserting the cigarettes, or wrapped groups thereof, into preformed containers  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	21/06 21/08 21/10 21/12 21/14 21/16 21/18 21/183 21/186 21/20 21/22 21/24	the bottles prior to introduction into, or after removal from, containers {(B65B 21/025 takes precedence)}  Forming groups of bottles  . Introducing or removing single bottles, or groups of bottles, e.g. for progressive filling or emptying of containers  using gravity flow  using grippers engaging bottles, e.g. bottle necks  . Introducing or removing groups of bottles, for filling or emptying containers in one operation  using gravity flow  using gravity flow  using grippers engaging bottles, e.g. bottle necks  {the grippers moving in an endless path}  {Inflatable grippers}  with means for varying spacing of bottles  by inverting and raising or lowering the container relative to bottles  . Enclosing bottles in wrappers  . {in collapsed carton sleeves}  . {in flexible wrappers, e.g. foils (B65B 21/26)
or materials operations; 19/00  19/00  19/02 19/025 19/04 19/06  19/10  19/105 19/12 19/14	pparatus or methods adapted for packaging articles presenting special problems, or for special packaging Unpacking bottles or eggs  Packaging rod-shaped or tubular articles susceptible to damage by abrasion or pressure, e.g. cigarettes, cigars, macaroni, spaghetti, drinking straws or welding electrodes  Packaging cigarettes  In webs of flexible sheet material  Arranging, feeding, or orientating the cigarettes  Turning individual cigarettes to present printed marks in desired position  Positioning oval cigarettes in overlapped arrangement  Arranging cigarettes in layers each comprising a predetermined number  Inserting the cigarettes, or wrapped groups thereof, into preformed containers  Inserting the cigarettes, or wrapped groups thereof, into preformed containers  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  into boxes with two pockets	21/06 21/08 21/10 21/12 21/14 21/16 21/18 21/183 21/186 21/20 21/22 21/24 21/242 21/245	the bottles prior to introduction into, or after removal from, containers {(B65B 21/025 takes precedence)}  Forming groups of bottles  . Introducing or removing single bottles, or groups of bottles, e.g. for progressive filling or emptying of containers  using gravity flow  using grippers engaging bottles, e.g. bottle necks  . Introducing or removing groups of bottles, for filling or emptying containers in one operation  using gravity flow  using gravity flow  using grippers engaging bottles, e.g. bottle necks  {the grippers moving in an endless path}  {Inflatable grippers}  with means for varying spacing of bottles  by inverting and raising or lowering the container relative to bottles  . Enclosing bottles in wrappers  . {in collapsed carton sleeves}  . {in flexible wrappers, e.g. foils (B65B 21/26 takes precedence)}
or materials operations; 19/00  19/00  19/02 19/025 19/04 19/06  19/08  19/10  19/105 19/12 19/14	pparatus or methods adapted for packaging articles presenting special problems, or for special packaging Unpacking bottles or eggs  Packaging rod-shaped or tubular articles susceptible to damage by abrasion or pressure, e.g. cigarettes, cigars, macaroni, spaghetti, drinking straws or welding electrodes  Packaging cigarettes  in webs of flexible sheet material  Arranging, feeding, or orientating the cigarettes  Turning individual cigarettes to present printed marks in desired position  Positioning oval cigarettes in overlapped arrangement  Arranging cigarettes in layers each comprising a predetermined number  ultimate in the prefermed companies in the cigarettes, or wrapped groups thereof, into preformed containers  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  into drawer-and-shell type boxes or cartons	21/06 21/08 21/10 21/12 21/14 21/16 21/18 21/183 21/186 21/20 21/22 21/24 21/242	the bottles prior to introduction into, or after removal from, containers {(B65B 21/025 takes precedence)}  Forming groups of bottles  . Introducing or removing single bottles, or groups of bottles, e.g. for progressive filling or emptying of containers  using gravity flow  using grippers engaging bottles, e.g. bottle necks  . Introducing or removing groups of bottles, for filling or emptying containers in one operation  using gravity flow  using gravity flow  using grappers engaging bottles, e.g. bottle necks  {the grippers moving in an endless path}  {Inflatable grippers}  with means for varying spacing of bottles  by inverting and raising or lowering the container relative to bottles  . Enclosing bottles in wrappers  . {in collapsed carton sleeves}  . {in flexible wrappers, e.g. foils (B65B 21/26 takes precedence)}  . {Wrapping individual bottles in straw-made
or materials operations; 19/00  19/00  19/02 19/025 19/04 19/06  19/10  19/105 19/12 19/14	pparatus or methods adapted for packaging articles presenting special problems, or for special packaging Unpacking bottles or eggs  Packaging rod-shaped or tubular articles susceptible to damage by abrasion or pressure, e.g. cigarettes, cigars, macaroni, spaghetti, drinking straws or welding electrodes  Packaging cigarettes  in webs of flexible sheet material  Arranging, feeding, or orientating the cigarettes  Turning individual cigarettes to present printed marks in desired position  Positioning oval cigarettes in overlapped arrangement  Arranging cigarettes in layers each comprising a predetermined number  ultimate in the preference of the present printed successive layers from a hopper  Inserting the cigarettes, or wrapped groups thereof, into preformed containers  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  into drawer-and-shell type boxes or cartons  into boxes with hinged lids	21/06 21/08 21/10 21/12 21/14 21/16 21/18 21/186 21/20 21/22 21/24 21/245 21/245	the bottles prior to introduction into, or after removal from, containers {(B65B 21/025 takes precedence)}  . Forming groups of bottles  . Introducing or removing single bottles, or groups of bottles, e.g. for progressive filling or emptying of containers  . using gravity flow  . using grippers engaging bottles, e.g. bottle necks  . Introducing or removing groups of bottles, for filling or emptying containers in one operation  . using gravity flow  . using gravity flow  . using grippers engaging bottles, e.g. bottle necks  {the grippers moving in an endless path}  {Inflatable grippers}  with means for varying spacing of bottles  by inverting and raising or lowering the container relative to bottles  . Enclosing bottles in wrappers  . {in collapsed carton sleeves}  . {in flexible wrappers, e.g. foils (B65B 21/26 takes precedence)}  . {Wrapping individual bottles in straw-made wrappers}
or materials operations; 19/00  19/00  19/02 19/025 19/04 19/06  19/10  19/105  19/12  19/14  19/16 19/18	pparatus or methods adapted for packaging articles presenting special problems, or for special packaging Unpacking bottles or eggs  Packaging rod-shaped or tubular articles susceptible to damage by abrasion or pressure, e.g. cigarettes, cigars, macaroni, spaghetti, drinking straws or welding electrodes  Packaging cigarettes  in webs of flexible sheet material  Arranging, feeding, or orientating the cigarettes  Turning individual cigarettes to present printed marks in desired position  Positioning oval cigarettes in overlapped arrangement  Arranging cigarettes in layers each comprising a predetermined number  ultimate in the cigarettes, or wrapped groups thereof, into preformed containers  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  into drawer-and-shell type boxes or cartons  into boxes with hinged lids  Wrapping the cigarettes; Packaging the cigarettes	21/06 21/08 21/10 21/12 21/14 21/16 21/18 21/183 21/186 21/20 21/22 21/24 21/242 21/245	the bottles prior to introduction into, or after removal from, containers {(B65B 21/025 takes precedence)}  . Forming groups of bottles  . Introducing or removing single bottles, or groups of bottles, e.g. for progressive filling or emptying of containers  . using gravity flow  . using grippers engaging bottles, e.g. bottle necks  . Introducing or removing groups of bottles, for filling or emptying containers in one operation  . using gravity flow  . using gravity flow  . using grippers engaging bottles, e.g. bottle necks  {the grippers moving in an endless path}  {Inflatable grippers}  with means for varying spacing of bottles  . by inverting and raising or lowering the container relative to bottles  . Enclosing bottles in wrappers  . {in collapsed carton sleeves}  . {in flexible wrappers, e.g. foils (B65B 21/26 takes precedence)}  . {Wrapping individual bottles in straw-made wrappers}  . Applying wrappers to individual bottles by
or materials operations; 19/00  19/00  19/02 19/025 19/04 19/06  19/10  19/105 19/12  19/14  19/16 19/18 19/20	pparatus or methods adapted for packaging articles presenting special problems, or for special packaging Unpacking bottles or eggs  Packaging rod-shaped or tubular articles susceptible to damage by abrasion or pressure, e.g. cigarettes, cigars, macaroni, spaghetti, drinking straws or welding electrodes  Packaging cigarettes  in webs of flexible sheet material  Arranging, feeding, or orientating the cigarettes  running individual cigarettes to present printed marks in desired position  Positioning oval cigarettes in overlapped arrangement  Arranging cigarettes in layers each comprising a predetermined number  successive layers from a hopper  Inserting the cigarettes, or wrapped groups thereof, into preformed containers  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  into drawer-and-shell type boxes or cartons  into boxes with hinged lids  Wrapping the cigarettes; Packaging the cigarettes in containers formed by folding wrapping	21/06 21/08 21/10 21/12 21/14 21/16 21/18 21/186 21/20 21/22 21/24 21/245 21/245	the bottles prior to introduction into, or after removal from, containers {(B65B 21/025 takes precedence)}  . Forming groups of bottles  . Introducing or removing single bottles, or groups of bottles, e.g. for progressive filling or emptying of containers  . using gravity flow  . using grippers engaging bottles, e.g. bottle necks  . Introducing or removing groups of bottles, for filling or emptying containers in one operation  . using gravity flow  . using gravity flow  . using grippers engaging bottles, e.g. bottle necks  {the grippers moving in an endless path}  {Inflatable grippers}  with means for varying spacing of bottles  by inverting and raising or lowering the container relative to bottles  . Enclosing bottles in wrappers  . {in collapsed carton sleeves}  . {in flexible wrappers, e.g. foils (B65B 21/26 takes precedence)}  . {Wrapping individual bottles in straw-made wrappers}  . Applying wrappers to individual bottles by operations involving rotation or rolling of the
or materials operations; 19/00  19/00  19/02 19/025 19/04 19/06  19/10  19/105 19/12  19/14  19/16 19/18 19/20	pparatus or methods adapted for packaging articles presenting special problems, or for special packaging Unpacking bottles or eggs  Packaging rod-shaped or tubular articles susceptible to damage by abrasion or pressure, e.g. cigarettes, cigars, macaroni, spaghetti, drinking straws or welding electrodes  Packaging cigarettes  in webs of flexible sheet material  Arranging, feeding, or orientating the cigarettes  Turning individual cigarettes to present printed marks in desired position  Positioning oval cigarettes in overlapped arrangement  Arranging cigarettes in layers each comprising a predetermined number  ultimate in the cigarettes, or wrapped groups thereof, into preformed containers  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  into drawer-and-shell type boxes or cartons  into boxes with hinged lids  Wrapping the cigarettes; Packaging the cigarettes	21/06 21/08 21/10 21/12 21/14 21/16 21/18 21/186 21/20 21/22 21/24 21/245 21/245	the bottles prior to introduction into, or after removal from, containers {(B65B 21/025 takes precedence)}  . Forming groups of bottles  . Introducing or removing single bottles, or groups of bottles, e.g. for progressive filling or emptying of containers  . using gravity flow  . using grippers engaging bottles, e.g. bottle necks  . Introducing or removing groups of bottles, for filling or emptying containers in one operation  . using gravity flow  . using gravity flow  . using grippers engaging bottles, e.g. bottle necks  {the grippers moving in an endless path}  {Inflatable grippers}  with means for varying spacing of bottles  by inverting and raising or lowering the container relative to bottles  . Enclosing bottles in wrappers  . {in collapsed carton sleeves}  . {in flexible wrappers, e.g. foils (B65B 21/26 takes precedence)}  . {Wrapping individual bottles in straw-made wrappers}  . Applying wrappers to individual bottles by

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23/00	Packaging fragile or shock-sensitive articles other than bottles; Unpacking eggs (embedding articles in	25/16	<ul> <li>Packaging bread or like bakery products, e.g. unsliced loaves</li> </ul>
	shock-absorbing media <u>B65B 55/20</u> )	25/18	Wrapping sliced bread
23/02	<ul> <li>Packaging or unpacking eggs</li> </ul>	25/20	<ul> <li>Packaging garments, e.g. socks, stockings, shirts</li> </ul>
23/04	Erecting egg trays or cartons from collapsed blanks	25/22	<ul> <li>Packaging articles of food, e.g. fish fillets, intended to be cooked in the package</li> </ul>
23/06	<ul> <li>Arranging, feeding, or orientating the eggs to be packed; Removing eggs from trays or cartons</li> </ul>	25/24	• Packaging annular articles, e.g. tyres
23/08	using grippers	27/00	Bundling particular articles presenting special
23/10	Packaging biscuits		problems using string, wire, or narrow tape or
23/10	<ul> <li>Arranging, feeding or orientating the biscuits to</li> </ul>		band; Baling fibrous material, e.g. peat, not
23/12	be packaged		otherwise provided for
23/14	Forming groups of biscuits	27/02	<ul> <li>Bundling bricks or other building blocks</li> </ul>
23/14	<ul> <li>Inserting the biscuits, or wrapped groups thereof,</li> </ul>	27/04	<ul> <li>Bundling groups of cans or bottles</li> </ul>
23/10	into {already} preformed containers	27/06	<ul> <li>Bundling coils of wire or like annular objects</li> </ul>
23/18	Wrapping individual biscuits, or groups of	27/08	<ul> <li>Bundling paper sheets, envelopes, bags,</li> </ul>
23/10	biscuits		newspapers, or other thin flat articles
23/20	Packaging plate glass, tiles, or shingles	27/083	<ul> <li>{Storage receptacles therefor}</li> </ul>
23/20	Packaging glass ampoules, lamp bulbs, radio valves	27/086	• • {using more than one tie, e.g. cross-ties}
23/22	or tubes, or the like	27/10	<ul> <li>Bundling rods, sticks, or like elongated objects</li> </ul>
	of tubes, of the fixe	27/105	• • {by means of adhesive tape}
25/00	Packaging other articles presenting special problems (bundling B65B 27/00)	27/12	. Baling or bundling compressible fibrous material,
25/001	• {of foodstuffs, combined with their conservation	27/125	<ul><li>e.g. peat</li><li>• {and wrapping or bagging}</li></ul>
	( <u>B65B 25/041</u> , <u>B65B 25/062</u> , <u>B65B 25/067</u> take	29/00	Packaging of materials presenting special
25/002	precedence)}	27/00	problems
25/002	<ul> <li>{packaging of information carriers, e.g. records, CD, DVD}</li> </ul>	29/02	• Packaging of substances, e.g. tea, which are
25/003	<ul><li>{packaging of razor blades}</li></ul>	20/022	intended to be infused in the package
25/005	<ul> <li>{packaging of confectionery}</li> </ul>	29/022	• • {packaging infusion material into capsules}
25/006	• • {packaging of lollipops}	29/025	• • {packaging infusion material into pods}
25/007	• {packaging of ice-cream}	29/028	• • {packaging infusion material into filter bags}
25/008	• {packaging of contact lenses}	29/04	Attaching, or forming and attaching, string
25/02	Packaging agricultural or horticultural products		handles or tags to tea bags
25/023	• • {Packaging flower bouquets}	29/06	Packaging of substances to which a further
25/026	• • {Packaging flower pots}		ingredient, e.g. water, is to be added in the package
25/04	Packaging fruit or vegetables	20/00	by the user for mixing prior to dispensing
25/041	• • {combined with their conservation}	29/08	• Packaging of edible materials intended to be cooked
25/043	• • • {of olives}	20/10	in the package (infusible substances <u>B65B 29/02</u> )
25/045	• • · {by flotation means}	29/10	<ul> <li>Packaging two or more different substances isolated from one another in the package but capable of</li> </ul>
25/046	• • • {in crates or boxes ( <u>B65B 25/045</u> takes		being mixed without opening the package, e.g.
	precedence)}		forming packages containing a resin and hardener
25/048	• • {in nets}		isolated by a frangible partition
25/06	• Packaging slices or specially-shaped pieces of meat,		
	cheese, or other plastic or tacky products	31/00	Packaging articles or materials under special
25/061	• • {of fish}		atmospheric or gaseous conditions; Adding
25/062	• • {combined with its conservation}		propellants to aerosol containers
25/064	• • {of poultry (processing of poultry <u>A22C 21/00</u> )}	31/003	• {Adding propellants in fluid form to aerosol
25/065	• • {of meat}		containers (in solid form <u>B65B 31/10</u> )}
25/067	• • {combined with its conservation}	31/006	• {Adding fluids for preventing deformation of filled
25/068	• • {of cheese}		and closed containers or wrappers}
25/08	between layers or strips of sheet or web material,	31/02	<ul> <li>Filling, closing, or filling and closing, containers {or wrappers} in chambers maintained under vacuum or</li> </ul>
25/10	e.g. in webs folded to zig-zag form		superatmospheric pressure or containing a special
25/10	Forming sector-shaped packages of cheese or like		atmosphere, e.g. of inert gas
25/12	plastic products	31/021	• • {the containers or wrappers being interconnected}
25/12	and enclosing in circular containers	31/022	• • {the chambers moving in an endless path}
25/14	<ul> <li>Packaging paper or like sheets, envelopes, or newspapers, in flat, folded, or rolled form</li> </ul>	31/024	• • {specially adapted for wrappers or bags (B65B 31/021, B65B 31/022 take precedence)}
25/141	• • {packaging flat articles in boxes}	31/025	• • {specially adapted for rigid or semi-rigid
25/143	• • • {by introducing successive articles}	31,023	containers ( <u>B65B 31/021</u> , <u>B65B 31/022</u> take
25/145	• • {packaging folded articles}		precedence)}
25/146	• • {packaging rolled-up articles}	31/027	• • {closed by a stopper}
25/148	{Jumbo paper rolls}		11 /

Machines, apparatus or methods adapted for packaging articles or materials presenting special problems, or for...

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31/028	• • • {closed by a lid sealed to the upper rim of the	35/246	• • {using extensible or retractable conveyors}
21/04	container, e.g. tray-like container}	35/26	• by rotary conveyors
31/04	<ul> <li>Evacuating, pressurising or gasifying filled containers or wrappers by means of nozzles</li> </ul>	35/28	• by pneumatic conveyors
	through which air or other gas, e.g. an inert gas, is	35/30	Arranging and feeding articles in groups
	withdrawn or supplied	35/32	• by gravity
31/041	• • {the nozzles acting from above on containers or	35/34	by agitators or vibrators
	wrappers open at their top (B65B 31/044 take	35/36	• by grippers
	precedence)}	35/38	• • by suction-operated grippers
31/042	• • {the nozzles being arranged for insertion into,	35/40	• by reciprocating or oscillatory pushers
	and withdrawal from, the container or wrapper}	35/405	• • · {linked to endless conveyors}
31/043	• • {the nozzles acting horizontally between an upper	35/42	• by roller-ways
	and a lower part of the container or wrapper, e.g. between container and lid}	35/44	• by endless belts or chains {( <u>B65B 35/405</u> takes precedence)}
31/044	• • {the nozzles being combined with a filling device	35/46	• by rotary conveyors
	( <u>B65B 31/043</u> takes precedence)}	35/48	by pneumatic conveyors
31/045	• • • {of Vertical Form-Fill-Seal [VFFS] machines}	35/50	• Stacking one article, or group of articles, upon
31/046	• • {the nozzles co-operating, or being combined,	25/52	another before packaging
	with a device for opening or closing the container	35/52	• • • building-up the stack from the bottom
	or wrapper ( <u>B65B 31/06</u> takes precedence)}	35/54	Feeding articles along multiple paths to a single  polyging position.
31/047	• • • {the nozzles co-operating with a check valve in	25/56	packaging position
	the opening of the container or wrapper}	35/56	<ul> <li>Orientating, i.e. changing the attitude of, articles, e.g. of non-uniform cross-section</li> </ul>
31/048	• • • {specially adapted for wrappers or bags}	35/58	• Turning articles by positively-acting means, e.g.
31/06	• the nozzle being arranged for insertion into, and	33/36	to present labelled portions in uppermost position
	withdrawal from, the mouth of a filled container		to present labelled portions in appermost position
	and operating in conjunction with means for	37/00	Supplying or feeding fluent-solid, plastic, or
21/09	sealing the container mouth		liquid material, or loose masses of small articles,
31/08	<ul> <li>the nozzle being adapted to pierce the container or wrapper</li> </ul>		to be packaged (methods of, or means for, filling
31/10	Adding propellants in solid form to aerosol		individual containers with such materials or articles
31/10	containers	2=100=	<u>B65B 1/04, B65B 3/04</u> )
		37/005	• {by endless belts or chains}
33/00	Packaging articles by applying removable, e.g.	37/02	by gravity flow
	<b>strippable, coatings</b> ( <u>B65B 11/52</u> takes precedence)	37/04	• by vibratory feeders
33/02	• Packaging small articles, e.g. spare parts for	37/06	by pistons or pumps
	machines or engines	37/08	• by rotary feeders
33/04	• Packaging large articles, e.g. complete machines,	37/10	• of screw type
22/06	aircraft	37/12	• of centrifugal type
33/06	<ul> <li>the coating being applied to a supporting layer or framework of sheets or strips of thin flexible</li> </ul>	37/14	by pneumatic feeders
	material, e.g. cocoon packaging	37/16	<ul> <li>Separating measured quantities from supply (in container-filling machines <u>B65B 1/30</u>, <u>B65B 3/26</u>)</li> </ul>
Details of any	xiliary devices applied to, or auxiliary measures	37/18	• • by weighing {(devices or methods for controlling
	hines, apparatus, or methods, not otherwise		the quantity of material or liquid fed or filled into
provided for	mines, apparatus, or methous, not other wise		a container by weighing <u>B65B 1/32</u> , <u>B65B 3/28</u> )}
_		37/20	by volume measurement
35/00	Supplying, feeding, arranging or orientating articles to be packaged	39/00	Nozzles, funnels or guides for introducing articles or materials into containers or wrappers
35/02	Supply magazines	39/001	• {with flow cut-off means, e.g. valves}
35/04	with buffer storage devices	39/002	• • {Pivoting plates}
35/06	Separating single articles from loose masses of	39/003	• • {Rotating means}
	articles	39/004	• • {moving linearly}
35/08	using pocketed conveyors	39/005	{transverse to flow direction}
35/10	• Feeding, e.g. conveying, single articles	39/006	• {Grids for introducing bottles into cases}
35/12	• by gravity	39/007	• {Guides or funnels for introducing articles into
35/14	by agitators or vibrators		containers or wrappers}
35/16	• by grippers	2039/008	• {Strainer means}
35/18	by suction-operated grippers	2039/009	• {Multiple outlets}
35/20	by reciprocating or oscillatory pushers	39/02	• Expansible or contractible nozzles, funnels, or
35/205	{linked to endless conveyors}		guides
35/22	by roller-ways	39/04	<ul> <li>having air-escape, or air-withdrawal, passages</li> </ul>
35/24	• by endless belts or chains {( <u>B65B 35/205</u> takes	39/06	<ul> <li>adapted to support containers or wrappers</li> </ul>
25/042	precedence)}	39/08	• • by means of clamps
35/243	• • • {using cooperating conveyors engaging the articles simultaneously}	39/10	operating automatically

Details of, auxiliary devices applied to, or auxiliary measures taken in, machines, apparatus, or methods, not...

39/12	• movable towards or away from container or wrapper	43/345	• • • {applied to boxes, cartons or carton blanks}
39/14	during filling or depositing  movable with a moving container or wrapper during	43/36 43/365	<ul><li>applied pneumatically</li><li>to boxes, cartons or carton blanks}</li></ul>
55/1.	filling or depositing	43/38	Opening hinged lids
39/145	• • {in an endless path}	43/39	Opening-out closure flaps clear of bag, box, or
41/00	Supplying or feeding container-forming sheets or		carton mouth
	wrapping material	43/40	Removing separate lids
41/02	<ul> <li>Feeding sheets or wrapper blanks</li> </ul>	43/41	<ul> <li>Opening drawer-and-shell cartons</li> <li>Feeding or positioning bags, boxes, or cartons in</li> </ul>
41/04	• • by grippers	43/42	the distended, opened, or set-up state; Feeding
41/06	• • • by suction-operated grippers		preformed rigid containers, e.g. tins, capsules, glass
41/08	<ul> <li>by reciprocating or oscillating pushers</li> </ul>		tubes, glasses, to the packaging position; Locating
41/10	by rollers		containers or receptacles at the filling position (by
41/12	• Feeding webs from rolls		means of filling-nozzles <u>B65B 39/00</u> ); Supporting
41/14	by grippers		containers or receptacles during the filling operation
41/16	. by rollers	10/11	(by filling-nozzles <u>B65B 39/00</u> )
41/18	• Registering sheets, blanks, or webs	43/44	. from supply magazines
43/00	Forming, feeding, opening or setting-up containers	43/46 43/465	• using grippers
	or receptacles in association with packaging	43/48	<ul><li> {for bags}</li><li>. using reciprocating or oscillating pushers</li></ul>
	(forming pockets in sheets, blanks or webs, by		
	pressing the material into forming dies or moving it	43/50	<ul> <li>using rotary tables or turrets {(<u>B65B 43/46</u> takes precedence)}</li> </ul>
12/02	through folding dies <u>B65B 47/00</u> )	43/52	using roller-ways or endless conveyors
43/02	• Forming flat bags from individual sheets or blanks	43/54	Means for supporting containers or receptacles
43/04 43/06	Forming flat bags from webs	13/3 1	during the filling operation
43/08	<ul> <li>from more than one web</li> <li>Forming three-dimensional containers from sheet</li> </ul>	43/56	movable stepwise to position container or
45/00	material		receptacle for the reception of successive
43/10	by folding the material		increments of contents
43/12	• Feeding flexible bags or carton blanks in flat or	43/58	vertically movable
	collapsed state; Feeding flat bags connected to form	43/59	• • • vertically movable ( <u>B65B 43/58</u> takes
	a series or chain	12/50	precedence)
43/123	• • {Feeding flat bags connected to form a series or	43/60	rotatable
	chain}	43/62	about an axis located at the filling position,
43/126	• • {Feeding carton blanks in flat or collapsed state}	43/02	e.g. the axis of the container or receptacle
43/126 43/14		45/00	e.g. the axis of the container or receptacle  Apparatus or devices for supporting or holding
	<ul><li>. {Feeding carton blanks in flat or collapsed state}</li><li>. Feeding individual bags or carton blanks from</li></ul>	45/00	e.g. the axis of the container or receptacle  Apparatus or devices for supporting or holding wrappers during wrapping operation
43/14 43/145	<ul> <li>{Feeding carton blanks in flat or collapsed state}</li> <li>Feeding individual bags or carton blanks from piles or magazines</li> <li>{Feeding carton blanks from piles or magazines}</li> </ul>		e.g. the axis of the container or receptacle  Apparatus or devices for supporting or holding wrappers during wrapping operation  Apparatus or devices for forming pockets or
43/14 43/145 43/16	<ul> <li>. {Feeding carton blanks in flat or collapsed state}</li> <li>. Feeding individual bags or carton blanks from piles or magazines</li> <li> {Feeding carton blanks from piles or magazines}</li> <li> by grippers</li> </ul>	45/00	e.g. the axis of the container or receptacle  Apparatus or devices for supporting or holding wrappers during wrapping operation  Apparatus or devices for forming pockets or receptacles in or from sheets, blanks, or webs,
43/145 43/145 43/16 43/165	<ul> <li>. {Feeding carton blanks in flat or collapsed state}</li> <li>. Feeding individual bags or carton blanks from piles or magazines</li> <li> {Feeding carton blanks from piles or magazines}</li> <li> by grippers</li> <li> {specially adapted for carton blanks}</li> </ul>	45/00	e.g. the axis of the container or receptacle  Apparatus or devices for supporting or holding wrappers during wrapping operation  Apparatus or devices for forming pockets or receptacles in or from sheets, blanks, or webs, comprising essentially a die into which the
43/14 43/145 43/16 43/165 43/18	<ul> <li>. {Feeding carton blanks in flat or collapsed state}</li> <li>. Feeding individual bags or carton blanks from piles or magazines</li> <li> {Feeding carton blanks from piles or magazines}</li> <li> by grippers</li> <li> {specially adapted for carton blanks}</li> <li> by suction-operated grippers</li> </ul>	45/00	e.g. the axis of the container or receptacle  Apparatus or devices for supporting or holding wrappers during wrapping operation  Apparatus or devices for forming pockets or receptacles in or from sheets, blanks, or webs,
43/14 43/145 43/16 43/165 43/18 43/185	<ul> <li>. {Feeding carton blanks in flat or collapsed state}</li> <li>. Feeding individual bags or carton blanks from piles or magazines</li> <li>. {Feeding carton blanks from piles or magazines}</li> <li>. by grippers</li> <li>. {specially adapted for carton blanks}</li> <li>. by suction-operated grippers</li> <li>. {specially adapted for carton blanks}</li> </ul>	45/00	e.g. the axis of the container or receptacle  Apparatus or devices for supporting or holding wrappers during wrapping operation  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
43/14 43/145 43/16 43/165 43/18 43/185 43/20	<ul> <li>. {Feeding carton blanks in flat or collapsed state}</li> <li>. Feeding individual bags or carton blanks from piles or magazines</li> <li>. {Feeding carton blanks from piles or magazines}</li> <li>. by grippers</li> <li>. {specially adapted for carton blanks}</li> <li>. by suction-operated grippers</li> <li>. {specially adapted for carton blanks}</li> <li>. by reciprocating or oscillating pushers</li> </ul>	45/00 47/00	e.g. the axis of the container or receptacle  Apparatus or devices for supporting or holding wrappers during wrapping operation  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
43/14 43/145 43/16 43/165 43/18 43/185 43/20 43/205	<ul> <li>. {Feeding carton blanks in flat or collapsed state}</li> <li>. Feeding individual bags or carton blanks from piles or magazines</li> <li>. {Feeding carton blanks from piles or magazines}</li> <li>. by grippers</li> <li>. {specially adapted for carton blanks}</li> <li>. by suction-operated grippers</li> <li>. {specially adapted for carton blanks}</li> <li>. by reciprocating or oscillating pushers</li> <li>. {specially adapted for carton blanks}</li> </ul>	<b>45/00 47/00</b> 47/02	e.g. the axis of the container or receptacle  Apparatus or devices for supporting or holding wrappers during wrapping operation  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  . with means for heating the material prior to forming
43/14 43/145 43/16 43/165 43/18 43/185 43/20 43/205 43/22	<ul> <li>. {Feeding carton blanks in flat or collapsed state}</li> <li>. Feeding individual bags or carton blanks from piles or magazines</li> <li>. {Feeding carton blanks from piles or magazines}</li> <li>. by grippers</li> <li>. {specially adapted for carton blanks}</li> <li>. by suction-operated grippers</li> <li>. {specially adapted for carton blanks}</li> <li>. by reciprocating or oscillating pushers</li> <li>. {specially adapted for carton blanks}</li> <li>. by rollers</li> </ul>	<b>45/00 47/00</b> 47/02 47/04	e.g. the axis of the container or receptacle  Apparatus or devices for supporting or holding wrappers during wrapping operation  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  with means for heating the material prior to forming by application of mechanical pressure
43/14 43/145 43/16 43/165 43/18 43/185 43/20 43/205 43/22 43/225	<ul> <li>{Feeding carton blanks in flat or collapsed state}</li> <li>Feeding individual bags or carton blanks from piles or magazines</li> <li>{Feeding carton blanks from piles or magazines}</li> <li>by grippers</li> <li>{specially adapted for carton blanks}</li> <li>by suction-operated grippers</li> <li>{specially adapted for carton blanks}</li> <li>by reciprocating or oscillating pushers</li> <li>{specially adapted for carton blanks}</li> <li>by rollers</li> <li>{specially adapted for carton blanks}</li> </ul>	<b>47/00 47/02 47/04 47/06</b>	e.g. the axis of the container or receptacle  Apparatus or devices for supporting or holding wrappers during wrapping operation  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  . with means for heating the material prior to forming  . by application of mechanical pressure  . using folding dies
43/14 43/145 43/16 43/165 43/18 43/185 43/20 43/205 43/225 43/225 43/24	<ul> <li>. {Feeding carton blanks in flat or collapsed state}</li> <li>. Feeding individual bags or carton blanks from piles or magazines</li> <li>. {Feeding carton blanks from piles or magazines}</li> <li>. by grippers</li> <li>. {specially adapted for carton blanks}</li> <li>. by suction-operated grippers</li> <li>. {specially adapted for carton blanks}</li> <li>. by reciprocating or oscillating pushers</li> <li>. {specially adapted for carton blanks}</li> <li>. by rollers</li> <li>. {specially adapted for carton blanks}</li> <li>. Breaking creases to facilitate setting-up cartons</li> </ul>	47/00 47/00 47/02 47/04 47/06 47/08 47/10	e.g. the axis of the container or receptacle  Apparatus or devices for supporting or holding wrappers during wrapping operation  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  . with means for heating the material prior to forming  . by application of mechanical pressure  . using folding dies  . by application of fluid pressure  . by vacuum
43/14 43/145 43/16 43/165 43/18 43/185 43/20 43/205 43/22 43/225	<ul> <li>. {Feeding carton blanks in flat or collapsed state}</li> <li>. Feeding individual bags or carton blanks from piles or magazines</li> <li>. {Feeding carton blanks from piles or magazines}</li> <li>. by grippers</li> <li>. (specially adapted for carton blanks)</li> <li>. by suction-operated grippers</li> <li>. (specially adapted for carton blanks)</li> <li>. by reciprocating or oscillating pushers</li> <li>. (specially adapted for carton blanks)</li> <li>. by rollers</li> <li>. (specially adapted for carton blanks)</li> <li>. Breaking creases to facilitate setting-up cartons</li> <li>. Opening or distending bags; Opening, erecting, or</li> </ul>	<b>47/00 47/02 47/04 47/06 47/08</b>	e.g. the axis of the container or receptacle  Apparatus or devices for supporting or holding wrappers during wrapping operation  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  . with means for heating the material prior to forming  . by application of mechanical pressure  . using folding dies  . by application of fluid pressure  . by vacuum  Devices for folding or bending wrappers around
43/14 43/145 43/16 43/165 43/18 43/185 43/20 43/205 43/225 43/225 43/24 43/26	<ul> <li>. {Feeding carton blanks in flat or collapsed state}</li> <li>. Feeding individual bags or carton blanks from piles or magazines</li> <li>. {Feeding carton blanks from piles or magazines}</li> <li>. by grippers</li> <li>. (specially adapted for carton blanks)</li> <li>. by suction-operated grippers</li> <li>. (specially adapted for carton blanks)</li> <li>. by reciprocating or oscillating pushers</li> <li>. (specially adapted for carton blanks)</li> <li>. by rollers</li> <li>. (specially adapted for carton blanks)</li> <li>Breaking creases to facilitate setting-up cartons</li> <li>Opening or distending bags; Opening, erecting, or setting-up boxes, cartons, or carton blanks</li> </ul>	47/00 47/00 47/02 47/04 47/06 47/08 47/10 49/00	e.g. the axis of the container or receptacle  Apparatus or devices for supporting or holding wrappers during wrapping operation  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  . with means for heating the material prior to forming  . by application of mechanical pressure  . using folding dies  . by application of fluid pressure  . by vacuum  Devices for folding or bending wrappers around contents
43/14 43/145 43/16 43/165 43/18 43/185 43/20 43/205 43/22 43/225 43/24 43/26	<ul> <li>. {Feeding carton blanks in flat or collapsed state}</li> <li>. Feeding individual bags or carton blanks from piles or magazines</li> <li>. {Feeding carton blanks from piles or magazines}</li> <li>. by grippers</li> <li>. {specially adapted for carton blanks}</li> <li>. by suction-operated grippers</li> <li>. {specially adapted for carton blanks}</li> <li>. by reciprocating or oscillating pushers</li> <li>. {specially adapted for carton blanks}</li> <li>. by rollers</li> <li>. {specially adapted for carton blanks}</li> <li>. by rollers</li> <li>. {specially adapted for carton blanks}</li> <li>Breaking creases to facilitate setting-up cartons</li> <li>Opening or distending bags; Opening, erecting, or setting-up boxes, cartons, or carton blanks</li> <li>. {opening of valve bags}</li> </ul>	47/00 47/00 47/02 47/04 47/06 47/08 47/10	e.g. the axis of the container or receptacle  Apparatus or devices for supporting or holding wrappers during wrapping operation  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  . with means for heating the material prior to forming  . by application of mechanical pressure  . using folding dies  . by application of fluid pressure  . by vacuum  Devices for folding or bending wrappers around
43/14 43/145 43/16 43/165 43/18 43/185 43/20 43/205 43/225 43/225 43/24 43/26	<ul> <li>. {Feeding carton blanks in flat or collapsed state}</li> <li>. Feeding individual bags or carton blanks from piles or magazines</li> <li>. {Feeding carton blanks from piles or magazines}</li> <li>. by grippers</li> <li>. (specially adapted for carton blanks)</li> <li>. by suction-operated grippers</li> <li>. (specially adapted for carton blanks)</li> <li>. by reciprocating or oscillating pushers</li> <li>. (specially adapted for carton blanks)</li> <li>. by rollers</li> <li>. (specially adapted for carton blanks)</li> <li>Breaking creases to facilitate setting-up cartons</li> <li>Opening or distending bags; Opening, erecting, or setting-up boxes, cartons, or carton blanks</li> </ul>	47/00 47/00 47/02 47/04 47/06 47/08 47/10 49/00	e.g. the axis of the container or receptacle  Apparatus or devices for supporting or holding wrappers during wrapping operation  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  . with means for heating the material prior to forming  . by application of mechanical pressure  . using folding dies  . by application of fluid pressure  . by vacuum  Devices for folding or bending wrappers around contents  . Fixed or resiliently-mounted folders, e.g. non-driven rollers  . Ploughs or plates with inclined slots or opposed
43/14 43/145 43/16 43/165 43/18 43/185 43/20 43/205 43/22 43/225 43/24 43/26	<ul> <li>. {Feeding carton blanks in flat or collapsed state}</li> <li>. Feeding individual bags or carton blanks from piles or magazines</li> <li>. {Feeding carton blanks from piles or magazines}</li> <li>. by grippers</li> <li>. {specially adapted for carton blanks}</li> <li>. by suction-operated grippers</li> <li>. {specially adapted for carton blanks}</li> <li>. by reciprocating or oscillating pushers</li> <li>. {specially adapted for carton blanks}</li> <li>. by rollers</li> <li>. {specially adapted for carton blanks}</li> <li>. by rollers</li> <li>. {specially adapted for carton blanks}</li> <li>Breaking creases to facilitate setting-up cartons</li> <li>Opening or distending bags; Opening, erecting, or setting-up boxes, cartons, or carton blanks</li> <li>. {opening of valve bags}</li> <li>. {Opening, erecting or setting-up boxes, cartons or</li> </ul>	47/00 47/00 47/02 47/04 47/06 47/08 47/10 49/00 49/02	e.g. the axis of the container or receptacle  Apparatus or devices for supporting or holding wrappers during wrapping operation  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  . with means for heating the material prior to forming  . by application of mechanical pressure  . using folding dies  . by application of fluid pressure  . by vacuum  Devices for folding or bending wrappers around contents  . Fixed or resiliently-mounted folders, e.g. non-driven rollers  . Ploughs or plates with inclined slots or opposed inclined edges
43/14 43/145 43/16 43/165 43/18 43/185 43/20 43/205 43/22 43/225 43/24 43/26 43/262 43/265	<ul> <li>• {Feeding carton blanks in flat or collapsed state}</li> <li>• Feeding individual bags or carton blanks from piles or magazines</li> <li>• • {Feeding carton blanks from piles or magazines}</li> <li>• • by grippers</li> <li>• • {specially adapted for carton blanks}</li> <li>• • by suction-operated grippers</li> <li>• • {specially adapted for carton blanks}</li> <li>• • by reciprocating or oscillating pushers</li> <li>• • {specially adapted for carton blanks}</li> <li>• • by rollers</li> <li>• • {specially adapted for carton blanks}</li> <li>• Dy rollers</li> <li>• • {specially adapted for carton blanks}</li> <li>• • Specially adapted for carton blanks}</li> <li>• • Opening or distending bags; Opening, erecting, or setting-up boxes, cartons, or carton blanks</li> <li>• {Opening of valve bags}</li> <li>• {Opening, erecting or setting-up boxes, cartons or carton blanks}</li> <li>• {Opening of bags interconnected in a web}</li> <li>• by grippers co-operating with fixed supports</li> </ul>	47/00 47/00 47/02 47/04 47/06 47/08 47/10 49/00 49/02 49/04 49/06	e.g. the axis of the container or receptacle  Apparatus or devices for supporting or holding wrappers during wrapping operation  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  . with means for heating the material prior to forming  . by application of mechanical pressure  . using folding dies  . by application of fluid pressure  . by vacuum  Devices for folding or bending wrappers around contents  . Fixed or resiliently-mounted folders, e.g. non-driven rollers  . Ploughs or plates with inclined slots or opposed inclined edges  . Resilient folders, e.g. brushes, diaphragms
43/14 43/145 43/165 43/165 43/18 43/185 43/200 43/205 43/225 43/225 43/226 43/262 43/265 43/267	<ul> <li>• {Feeding carton blanks in flat or collapsed state}</li> <li>• Feeding individual bags or carton blanks from piles or magazines</li> <li>• • {Feeding carton blanks from piles or magazines}</li> <li>• • by grippers</li> <li>• • {specially adapted for carton blanks}</li> <li>• • by suction-operated grippers</li> <li>• • {specially adapted for carton blanks}</li> <li>• • by reciprocating or oscillating pushers</li> <li>• • {specially adapted for carton blanks}</li> <li>• • by rollers</li> <li>• • {specially adapted for carton blanks}</li> <li>• Breaking creases to facilitate setting-up cartons</li> <li>• Opening or distending bags; Opening, erecting, or setting-up boxes, cartons, or carton blanks</li> <li>• {opening of valve bags}</li> <li>• {Opening, erecting or setting-up boxes, cartons or carton blanks}</li> <li>• {Opening of bags interconnected in a web}</li> <li>• by grippers co-operating with fixed supports</li> <li>• {specially adapted for boxes, cartons or carton</li> </ul>	47/00 47/00 47/02 47/04 47/06 47/08 47/10 49/00 49/02 49/04 49/06 49/08	e.g. the axis of the container or receptacle  Apparatus or devices for supporting or holding wrappers during wrapping operation  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  . with means for heating the material prior to forming  . by application of mechanical pressure  . using folding dies  . by application of fluid pressure  . by vacuum  Devices for folding or bending wrappers around contents  . Fixed or resiliently-mounted folders, e.g. non-driven rollers  . Ploughs or plates with inclined slots or opposed inclined edges  . Resilient folders, e.g. brushes, diaphragms  . Reciprocating or oscillating folders
43/14 43/145 43/16 43/165 43/18 43/185 43/20 43/205 43/225 43/225 43/24 43/26 43/262 43/265 43/267 43/28 43/285	<ul> <li>{Feeding carton blanks in flat or collapsed state}</li> <li>Feeding individual bags or carton blanks from piles or magazines</li> <li>{Feeding carton blanks from piles or magazines}</li> <li>by grippers</li> <li>{specially adapted for carton blanks}</li> <li>by suction-operated grippers</li> <li>{specially adapted for carton blanks}</li> <li>by reciprocating or oscillating pushers</li> <li>{specially adapted for carton blanks}</li> <li>by rollers</li> <li>{specially adapted for carton blanks}</li> <li>by rollers</li> <li>(specially adapted for carton blanks}</li> <li>Breaking creases to facilitate setting-up cartons</li> <li>Opening or distending bags; Opening, erecting, or setting-up boxes, cartons, or carton blanks</li> <li>{opening of valve bags}</li> <li>{Opening, erecting or setting-up boxes, cartons or carton blanks}</li> <li>{Opening of bags interconnected in a web}</li> <li>by grippers co-operating with fixed supports</li> <li>{specially adapted for boxes, cartons or carton blanks}</li> </ul>	47/00 47/00 47/02 47/04 47/06 47/08 47/10 49/00 49/02 49/04 49/06 49/08 49/10	e.g. the axis of the container or receptacle  Apparatus or devices for supporting or holding wrappers during wrapping operation  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  with means for heating the material prior to forming  by application of mechanical pressure  using folding dies  by application of fluid pressure  by vacuum  Devices for folding or bending wrappers around contents  Fixed or resiliently-mounted folders, e.g. non-driven rollers  Ploughs or plates with inclined slots or opposed inclined edges  Resilient folders, e.g. brushes, diaphragms  Reciprocating or oscillating folders  Folders movable in closed non-circular paths
43/14 43/145 43/165 43/165 43/18 43/20 43/205 43/22 43/225 43/24 43/26 43/262 43/265 43/267 43/28	<ul> <li>{Feeding carton blanks in flat or collapsed state}</li> <li>Feeding individual bags or carton blanks from piles or magazines</li> <li>{Feeding carton blanks from piles or magazines}</li> <li>by grippers</li> <li>{specially adapted for carton blanks}</li> <li>by suction-operated grippers</li> <li>{specially adapted for carton blanks}</li> <li>by reciprocating or oscillating pushers</li> <li>{specially adapted for carton blanks}</li> <li>by rollers</li> <li>{specially adapted for carton blanks}</li> <li>by rollers</li> <li>{specially adapted for carton blanks}</li> <li>Breaking creases to facilitate setting-up cartons</li> <li>Opening or distending bags; Opening, erecting, or setting-up boxes, cartons, or carton blanks</li> <li>{opening of valve bags}</li> <li>{Opening, erecting or setting-up boxes, cartons or carton blanks}</li> <li>{Opening of bags interconnected in a web}</li> <li>by grippers co-operating with fixed supports</li> <li>{specially adapted for boxes, cartons or carton blanks}</li> <li>by grippers engaging opposed walls, e.g. suction-</li> </ul>	45/00 47/00 47/02 47/04 47/06 47/08 47/10 49/00 49/02 49/04 49/06 49/08 49/10 49/12	e.g. the axis of the container or receptacle  Apparatus or devices for supporting or holding wrappers during wrapping operation  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  with means for heating the material prior to forming  by application of mechanical pressure  using folding dies  by application of fluid pressure  by vacuum  Devices for folding or bending wrappers around contents  Fixed or resiliently-mounted folders, e.g. non-driven rollers  Ploughs or plates with inclined slots or opposed inclined edges  Resilient folders, e.g. brushes, diaphragms  Reciprocating or oscillating folders  Folders movable in closed non-circular paths  Rotary folders
43/14 43/145 43/16 43/165 43/18 43/185 43/20 43/205 43/225 43/225 43/24 43/26 43/262 43/265 43/267 43/28 43/285 43/30	<ul> <li>{Feeding carton blanks in flat or collapsed state}</li> <li>Feeding individual bags or carton blanks from piles or magazines</li> <li>{Feeding carton blanks from piles or magazines}</li> <li>by grippers</li> <li>{specially adapted for carton blanks}</li> <li>by suction-operated grippers</li> <li>{specially adapted for carton blanks}</li> <li>by reciprocating or oscillating pushers</li> <li>{specially adapted for carton blanks}</li> <li>by rollers</li> <li>{specially adapted for carton blanks}</li> <li>byrollers</li> <li>{specially adapted for carton blanks}</li> <li>Breaking creases to facilitate setting-up cartons</li> <li>Opening or distending bags; Opening, erecting, or setting-up boxes, cartons, or carton blanks</li> <li>{opening of valve bags}</li> <li>{Opening, erecting or setting-up boxes, cartons or carton blanks}</li> <li>by grippers co-operating with fixed supports</li> <li>{specially adapted for boxes, cartons or carton blanks}</li> <li>by grippers engaging opposed walls, e.g. suction-operated</li> </ul>	47/00 47/00 47/02 47/04 47/06 47/08 47/10 49/00 49/02 49/04 49/06 49/08 49/10	e.g. the axis of the container or receptacle  Apparatus or devices for supporting or holding wrappers during wrapping operation  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  with means for heating the material prior to forming  by application of mechanical pressure  using folding dies  by application of fluid pressure  by vacuum  Devices for folding or bending wrappers around contents  Fixed or resiliently-mounted folders, e.g. non-driven rollers  Ploughs or plates with inclined slots or opposed inclined edges  Resilient folders, e.g. brushes, diaphragms  Reciprocating or oscillating folders  Folders movable in closed non-circular paths  Rotary folders  Folders forming part of, or attached to, conveyors
43/14 43/145 43/16 43/165 43/18 43/185 43/20 43/205 43/225 43/225 43/24 43/26 43/262 43/265 43/267 43/28 43/285	<ul> <li>{Feeding carton blanks in flat or collapsed state}</li> <li>Feeding individual bags or carton blanks from piles or magazines</li> <li>{Feeding carton blanks from piles or magazines}</li> <li>by grippers</li> <li>{specially adapted for carton blanks}</li> <li>by suction-operated grippers</li> <li>{specially adapted for carton blanks}</li> <li>by reciprocating or oscillating pushers</li> <li>{specially adapted for carton blanks}</li> <li>by rollers</li> <li>{specially adapted for carton blanks}</li> <li>byrollers</li> <li>{specially adapted for carton blanks}</li> <li>Breaking creases to facilitate setting-up cartons</li> <li>Opening or distending bags; Opening, erecting, or setting-up boxes, cartons, or carton blanks</li> <li>{opening of valve bags}</li> <li>{Opening, erecting or setting-up boxes, cartons or carton blanks}</li> <li>{opening of bags interconnected in a web}</li> <li>by grippers co-operating with fixed supports</li> <li>{specially adapted for boxes, cartons or carton blanks}</li> <li>by grippers engaging opposed walls, e.g. suction-operated</li> <li>{specially adapted for boxes, cartons or carton</li> </ul>	45/00 47/00 47/00 47/02 47/04 47/06 47/08 47/10 49/00 49/02 49/04 49/06 49/08 49/10 49/12 49/14	e.g. the axis of the container or receptacle  Apparatus or devices for supporting or holding wrappers during wrapping operation  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  with means for heating the material prior to forming  by application of mechanical pressure  using folding dies  by application of fluid pressure  by vacuum  Devices for folding or bending wrappers around contents  Fixed or resiliently-mounted folders, e.g. non-driven rollers  Ploughs or plates with inclined slots or opposed inclined edges  Resilient folders, e.g. brushes, diaphragms  Reciprocating or oscillating folders  Folders movable in closed non-circular paths  Rotary folders  Folders forming part of, or attached to, conveyors for partially-wrapped articles
43/14 43/145 43/16 43/165 43/18 43/185 43/20 43/205 43/225 43/225 43/226 43/265 43/265 43/267 43/28 43/30 43/305	<ul> <li>{Feeding carton blanks in flat or collapsed state}</li> <li>Feeding individual bags or carton blanks from piles or magazines</li> <li>{Feeding carton blanks from piles or magazines}</li> <li>by grippers</li> <li>{specially adapted for carton blanks}</li> <li>by suction-operated grippers</li> <li>{specially adapted for carton blanks}</li> <li>by reciprocating or oscillating pushers</li> <li>{specially adapted for carton blanks}</li> <li>by rollers</li> <li>{specially adapted for carton blanks}</li> <li>byrollers</li> <li>{specially adapted for carton blanks}</li> <li>Breaking creases to facilitate setting-up cartons</li> <li>Opening or distending bags; Opening, erecting, or setting-up boxes, cartons, or carton blanks</li> <li>{opening of valve bags}</li> <li>{Opening, erecting or setting-up boxes, cartons or carton blanks}</li> <li>{opening of bags interconnected in a web}</li> <li>by grippers co-operating with fixed supports</li> <li>{specially adapted for boxes, cartons or carton blanks}</li> <li>by grippers engaging opposed walls, e.g. suction-operated</li> <li>{specially adapted for boxes, cartons or carton blanks}</li> </ul>	45/00 47/00 47/02 47/04 47/06 47/08 47/10 49/00 49/02 49/04 49/06 49/08 49/10 49/12	e.g. the axis of the container or receptacle  Apparatus or devices for supporting or holding wrappers during wrapping operation  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  with means for heating the material prior to forming  by application of mechanical pressure  using folding dies  by application of fluid pressure  by vacuum  Devices for folding or bending wrappers around contents  Fixed or resiliently-mounted folders, e.g. non-driven rollers  Ploughs or plates with inclined slots or opposed inclined edges  Resilient folders, e.g. brushes, diaphragms  Reciprocating or oscillating folders  Folders movable in closed non-circular paths  Rotary folders  Folders forming part of, or attached to, conveyors
43/14 43/145 43/165 43/165 43/18 43/185 43/200 43/205 43/225 43/225 43/24 43/265 43/265 43/267 43/28 43/285 43/30 43/305 43/32	<ul> <li>• {Feeding carton blanks in flat or collapsed state}</li> <li>• Feeding individual bags or carton blanks from piles or magazines</li> <li>• • {Feeding carton blanks from piles or magazines}</li> <li>• • by grippers</li> <li>• • (specially adapted for carton blanks)</li> <li>• • by suction-operated grippers</li> <li>• • (specially adapted for carton blanks)</li> <li>• • by reciprocating or oscillating pushers</li> <li>• • (specially adapted for carton blanks)</li> <li>• by rollers</li> <li>• • (specially adapted for carton blanks)</li> <li>• Breaking creases to facilitate setting-up cartons</li> <li>• Opening or distending bags; Opening, erecting, or setting-up boxes, cartons, or carton blanks</li> <li>• {opening of valve bags}</li> <li>• {Opening, erecting or setting-up boxes, cartons or carton blanks}</li> <li>• {Opening of bags interconnected in a web}</li> <li>• by grippers co-operating with fixed supports</li> <li>• • {specially adapted for boxes, cartons or carton blanks}</li> <li>• by grippers engaging opposed walls, e.g. suction-operated</li> <li>• • {specially adapted for boxes, cartons or carton blanks}</li> <li>• by external pressure diagonally applied</li> </ul>	45/00 47/00 47/00 47/02 47/04 47/06 47/08 47/10 49/00 49/02 49/04 49/06 49/08 49/10 49/12 49/14	e.g. the axis of the container or receptacle  Apparatus or devices for supporting or holding wrappers during wrapping operation  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  with means for heating the material prior to forming  by application of mechanical pressure  using folding dies  by application of fluid pressure  by vacuum  Devices for folding or bending wrappers around contents  Fixed or resiliently-mounted folders, e.g. non-driven rollers  Ploughs or plates with inclined slots or opposed inclined edges  Resilient folders, e.g. brushes, diaphragms  Reciprocating or oscillating folders  Folders movable in closed non-circular paths  Rotary folders  Folders forming part of, or attached to, conveyors for partially-wrapped articles
43/14 43/145 43/16 43/165 43/18 43/185 43/20 43/205 43/225 43/225 43/226 43/265 43/265 43/267 43/28 43/30 43/305	<ul> <li>{Feeding carton blanks in flat or collapsed state}</li> <li>Feeding individual bags or carton blanks from piles or magazines</li> <li>{Feeding carton blanks from piles or magazines}</li> <li>by grippers</li> <li>{specially adapted for carton blanks}</li> <li>by suction-operated grippers</li> <li>{specially adapted for carton blanks}</li> <li>by reciprocating or oscillating pushers</li> <li>{specially adapted for carton blanks}</li> <li>by rollers</li> <li>{specially adapted for carton blanks}</li> <li>byrollers</li> <li>{specially adapted for carton blanks}</li> <li>Breaking creases to facilitate setting-up cartons</li> <li>Opening or distending bags; Opening, erecting, or setting-up boxes, cartons, or carton blanks</li> <li>{opening of valve bags}</li> <li>{Opening, erecting or setting-up boxes, cartons or carton blanks}</li> <li>{opening of bags interconnected in a web}</li> <li>by grippers co-operating with fixed supports</li> <li>{specially adapted for boxes, cartons or carton blanks}</li> <li>by grippers engaging opposed walls, e.g. suction-operated</li> <li>{specially adapted for boxes, cartons or carton blanks}</li> </ul>	45/00 47/00 47/00 47/02 47/04 47/06 47/08 47/10 49/00 49/02 49/04 49/06 49/08 49/10 49/12 49/14	e.g. the axis of the container or receptacle  Apparatus or devices for supporting or holding wrappers during wrapping operation  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  with means for heating the material prior to forming  by application of mechanical pressure  using folding dies  by application of fluid pressure  by vacuum  Devices for folding or bending wrappers around contents  Fixed or resiliently-mounted folders, e.g. non-driven rollers  Ploughs or plates with inclined slots or opposed inclined edges  Resilient folders, e.g. brushes, diaphragms  Reciprocating or oscillating folders  Folders movable in closed non-circular paths  Rotary folders  Folders forming part of, or attached to, conveyors for partially-wrapped articles

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51/00	Devices for, or methods of, sealing or securing package folds or closures; Devices for gathering or twisting wrappers, or necks of bags	55/00	Preserving, protecting or purifying packages or package contents in association with packaging (by packaging under special atmospheric or gaseous
51/02	Applying adhesives or sealing liquids		conditions <u>B65B 31/00</u> ; devices for placing protecting
			sheets, plugs, or wads over contents <u>B65B 61/22</u> )
51/023	• • {using applicator nozzles}	55/02	Sterilising, e.g. of complete packages
51/026	• • {using rotating applicators}		
51/04	<ul> <li>Applying separate sealing or securing members, e.g. clips, (applying separate lids or covers <u>B65B 7/28</u>)</li> </ul>	55/022	• • {of flexible containers having a filling and dispensing spout, e.g. containers of the "bag-
51/043	• • {Applying springy clips around bag necks}		in-box"-type ( <u>B65B 55/025</u> , <u>B65B 55/027</u> take
51/046	• • {Applying a closure element to the mouths of		precedence)}
21,010	bags}	55/025	• • {Packaging in aseptic tunnels}
51/05	Stapling	55/027	• • {Packaging in aseptic chambers}
51/05	Applying adhesive tape	55/04	Sterilising wrappers or receptacles prior to,
			or during, packaging {(sterilising bottles
51/062	• • • {to the mouths of bags}		<u>B67C 7/00</u> )}
51/065	• • • {to the necks of bags}	55/06	by heat
51/067	• • • {to the closure flaps of boxes}	55/08	• • by irradiation
51/07	Sewing or stitching	55/10	by liquids or gases
51/08	<ul> <li>Applying binding material, e.g. to twisted bag</li> </ul>		
	necks	55/103	• • • {Sterilising flat or tubular webs}
51/10	<ul> <li>Applying or generating heat or pressure or</li> </ul>	55/106	{Sterilising connected bags}
	combinations thereof {(welding of plastics per se	55/12	• • Sterilising contents prior to, or during, packaging
	B29C 65/02; closing plastic tube ends in general	55/14	by heat
	<u>B29C 57/10</u> )}	55/16	• • by irradiation
2051/105	• • {Heat seal temperature control}	55/18	by liquids or gases (B65B 55/14 takes
51/12	by resilient means, e.g. brushes		precedence)
51/14	by reciprocating or oscillating members	55/19	by adding materials intended to remove free
	(B65B 51/148 takes precedence)		oxygen or to develop inhibitor gases, e.g.
51/142	• • {Closing bottle necks or tubes}		vapour phase inhibitors
51/144	{Closing paperboard containers}	55/20	• Embedding contents in shock-absorbing media, e.g.
51/144	{Closing bags}		plastic foam, granular material
		55/22	Immersing contents in protective liquids
51/148	• • {Hand-operated members}	55/24	• Cleaning of, or removing dust from, containers,
51/16	• • by rotary members	00,2.	wrappers, or packaging {; Preventing of fouling}
51/18	by endless bands or chains		
51/20	<ul> <li>by fluid pressure acting directly on folds or on opposed surfaces, e.g. using hot-air jets (shrinking wrappers by heating <u>B65B 53/02</u>)</li> </ul>	57/00	Automatic control, checking, warning, or safety devices (registering wrapping or container-forming material fed from rolls <u>B65B 41/18</u> )
51/22	by friction or ultrasonic or high-frequency	57/005	• {Safety-devices (B65B 57/18 takes precedence)}
	electrical means {, i.e. by friction or ultrasonic or	57/02	• responsive to absence, presence, abnormal feed,
	induction welding}	37/02	or misplacement of binding or wrapping material,
51/222	• • {by friction welding}		containers, or packages
51/225	• • • {by ultrasonic welding}	57/04	<ul> <li>and operating to control, or to stop, the feed of</li> </ul>
51/227	{by induction welding}	37/04	such material, containers, or packages
51/24	<ul> <li>to produce bead seals (combined with severing by</li> </ul>	57/06	· ·
	heated wires or rods <u>B65B 61/10</u> )	57/06	<ul> <li>and operating to control, or to stop, the feed of articles or material to be packaged</li> </ul>
51/26	<ul> <li>Devices specially adapted for producing transverse or longitudinal seams in webs or tubes</li> </ul>	57/08	<ul> <li>and operating to stop, or to control the speed of, the machine as a whole</li> </ul>
51/28	Rollers for producing longitudinal and transverse seams simultaneously	57/10	<ul> <li>responsive to absence, presence, abnormal feed, or misplacement of articles or materials to be packaged</li> </ul>
51/30	• • Devices, e.g. jaws, for applying pressure and heat, e.g. for subdividing filled tubes	57/12	<ul> <li>and operating to control, or stop, the feed of wrapping materials, containers, or packages</li> </ul>
51/303	• • • {reciprocating along only one axis}	57/14	<ul> <li>and operating to control, or stop, the feed of</li> </ul>
51/306	{Counter-rotating devices}	07/11	articles or material to be packaged
51/300	Cooling, or cooling and pressing, package closures	57/145	{for fluent material}
31/32	after heat-sealing	57/16	and operating to stop, or to control the speed of,
53/00	Shrinking wrappers, containers, or container	57/10	the machine as a whole
	covers during or after packaging	57/18 57/20	• causing operation of audible or visible alarm signals
53/02	• by heat	57/20	• Applications of counting devices for controlling the
53/04	supplied by liquids		feed of articles (other applications <u>B65B 65/08</u> )
53/06	• supplied by gases, e.g. hot-air jets		
53/063	• • • {Tunnels}		
53/066	• • { Mobile frames, hoods, posts or the like}		
23/000	• • (moone manies, noods, posts of the fixe)		

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59/00	Arrangements to enable machines to handle articles of different sizes, to produce packages of different sizes, to vary the contents of packages {,	63/02	<ul> <li>for compressing or compacting articles or materials prior to wrapping or insertion in containers or receptacles</li> </ul>
	to handle different types of packaging material,} or to give access for cleaning or maintenance	63/022	• • {using compressing chambers or plates moving in an endless path}
	purposes	63/024	<ul><li>• { for compressing by winding }</li></ul>
59/001	• {Arrangements to enable adjustments related to the product to be packaged}	63/026	<ul> <li>• {for compressing by feeding articles through a narrowing space}</li> </ul>
59/003	• {Arrangements to enable adjustments related to the	63/028	• • {by pneumatic means}
	packaging material}	63/04	<ul> <li>for folding or winding articles, e.g. gloves or</li> </ul>
59/005	• {Adjustable conveying means}		stockings
59/02	Arrangements to enable adjustments to be made	63/045	• • {for folding garments, e.g. stockings, shirts}
<b>=</b> 0.10.4	while the machine is running	63/06	• • Forming elongated hanks, e.g. of shoe laces
59/04	<ul> <li>Machines constructed with readily-detachable units or assemblies, e.g. to facilitate maintenance</li> </ul>	63/08	<ul> <li>for heating or cooling articles or materials to facilitate packaging</li> </ul>
61/00	Auxiliary devices, not otherwise provided for,	65/00	Details peculiar to packaging machines and not
	for operating on sheets, blanks, webs, binding	02,00	otherwise provided for; Arrangements of such
	material, containers or packages		details
61/002	<ul> <li>{for drying glued or sealed packages}</li> </ul>	65/003	• {Packaging lines, e.g. general layout}
61/005	• {for removing material by cutting}	65/006	• • {Multiple parallel packaging lines}
61/007	• {Perforating strips of completed packages}	65/02	Driving gear
61/02	<ul> <li>for perforating, scoring {, slitting,} or applying</li> </ul>	65/04	Mechanisms for converting a continuous rotary
	code or date marks on material prior to packaging	03/04	motion to intermittent rotary motion, e.g. Geneva
	{(scoring ampoules <u>B65B 3/006</u> )}		drives
61/025	• • {for applying, e.g. printing, code or date marks on	65/06	• coated or treated with anti-friction or anti-sticking
	material prior to packaging}	03/00	materials, e.g. polytetrafluoroethylene
61/04	<ul> <li>for severing webs, or for separating joined packages</li> </ul>	65/08	Devices for counting or registering the number
61/06	• by cutting	03/00	of articles handled, or the number of packages
61/065	• • · {by punching out}		produced by the machine
61/08	using rotary cutters		
61/10	using heated wires or cutters	67/00	Apparatus or devices facilitating manual
61/12	• by tearing along perforations or lines of weakness		packaging operations; Sack holders
61/14	<ul> <li>for incorporating, or forming and incorporating,</li> </ul>	67/02	<ul> <li>Packaging of articles or materials in containers</li> </ul>
01/11	handles or suspension means in packages (attaching,	67/04	• Devices facilitating the insertion of articles or
	or forming and attaching, string handles or tags to		materials into bags {, e.g. guides or chutes (sack
	tea-bags <u>B65B 29/04</u> )		holders <u>B65B 67/12</u> )}
61/16	Forming suspension apertures in packages	67/06	Manually-operable devices for closing bag necks,
61/18	for making package-opening or unpacking elements		by applying and securing lengths of string, wire
61/182	• • {by applying tear-strips or tear-tapes}	6 <b>7</b> /00	or tape
61/184	• • {by applying tabs over discharge openings, e.g.	67/08	• Wrapping of articles
	over discharge openings defined by tear or score	67/085	• • {using hand-held dispensers for stretch films}
	lines}	67/10	Wrapping-tables
61/186	• • {by applying or incorporating rigid fittings, e.g.	67/12	• Sack holders, i.e. stands or frames with means for
	discharge spouts}		supporting sacks in the open condition to facilitate
61/188	• • {by applying or incorporating profile-strips, e.g.		filling with articles or materials {(nozzles, funnels
	for reclosable bags}	67/1205	or guides adapted to support sacks <u>B65B 39/06</u> )}
61/20	<ul> <li>for adding cards, coupons or other inserts to</li> </ul>	67/1205	• • {collapsible or foldable ( <u>B65B 67/1216</u> ,
	package contents (adding unpacking elements	67/1011	<u>B65B 67/1244</u> , <u>B65B 67/1255</u> take precedence)}
	<u>B65B 61/18</u> )	67/1211	• • {characterised by mechanisms for moving, e.g.
61/202	• • { for attaching articles to the outside of a container		pivoting, lids or frame parts, e.g. pedal-operated (B65B 67/1216 takes precedence; pedal- operated
	(B65B 61/205  takes precedence)		mechanisms for opening or closing container lids
61/205	<ul> <li>{ for adding drinking straws to a container}</li> </ul>		B65D 43/26)}
61/207	• • {for inserting partitions between package	67/1216	• • {co-operating with the door of a cabinet or the
	contents}	07/1210	like}
61/22	<ul> <li>for placing protecting sheets, plugs, or wads over contents, e.g. cotton-wool in bottles of pills</li> </ul>	67/1222	(characterised by means for suspending sacks, e.g. pedal- operated)
61/24	<ul> <li>for shaping or reshaping completed packages</li> </ul>	67/1227	• • • (only by a part of the periphery, e.g. by
61/26	<ul> <li>for marking or coding completed packages</li> </ul>	/ <b>/</b>	single points or handles, or by one side or
61/28	<ul> <li>for discharging completed packages from machines</li> </ul>		two opposite sides only (B65B 67/1244 takes
63/00	Auviliant davious not atherwise previded for for		precedence)}
03/00	Auxiliary devices, not otherwise provided for, for operating on articles or materials to be packaged	67/1233	• • • {Clamping or holding means}
63/005		67/1238	• • {Inserts or external supports, e.g. baskets, for
63/005	• {for marking or coding articles prior to packaging}		stiffening sacks in the open condition}

Details of, auxiliary devices applied to, or auxiliary measures taken in, machines, apparatus, or methods, not

67/1244	• • {characterised by mechanisms for temporarily closing the mouth of the sack, e.g. pedal-operated ( <u>B65B 67/1211</u> , <u>B65B 67/1255</u> take precedence; final closing or sealing of sacks <u>B65B 7/02</u> , <u>B65B 51/00</u> )}
67/125	• • {comprising resilient closing elements, e.g. inserts, cooperating with the mouth of the sack}
67/1255	<ul> <li>{characterised by positively acting means for stretching the mouth of the sack into the open condition, e.g. using springs}</li> </ul>
2067/1261	• • {Holders with lids}
67/1266	• • {specially adapted for storing or dispensing sacks from a supply}
2067/1272	• • • {the sacks being rolled-up}
67/1277	• • • {for dispensing flexible tubular material gathered up in the shape of a ring}
2067/1283	• • {Means for gathering, closing or sealing the sacks}
2067/1288	{Inflatable parts}
2067/1294	{Holders for multiple sacks}
	• • (Holders for multiple sacks)
69/00	Unpacking of articles or materials, not otherwise
	•
	Unpacking of articles or materials, not otherwise provided for . {Opening and emptying bags}
69/00	Unpacking of articles or materials, not otherwise provided for
<b>69/00</b> 69/0008	Unpacking of articles or materials, not otherwise provided for . {Opening and emptying bags}
<b>69/00</b> 69/0008 69/0016	Unpacking of articles or materials, not otherwise provided for  • {Opening and emptying bags}  • • {for urine bags or medical drainage bags}  • {Removing or cutting binding material, e.g. straps
69/0008 69/0016 69/0025	Unpacking of articles or materials, not otherwise provided for  • {Opening and emptying bags}  • • {for urine bags or medical drainage bags}  • {Removing or cutting binding material, e.g. straps or bands}  • {by cutting (B65B 69/0008-B65B 69/0025 take
69/0008 69/0016 69/0025 69/0033	Unpacking of articles or materials, not otherwise provided for  • {Opening and emptying bags}  • • {for urine bags or medical drainage bags}  • {Removing or cutting binding material, e.g. straps or bands}  • {by cutting (B65B 69/0008-B65B 69/0025 take precedence)}
69/00 69/0008 69/0016 69/0025 69/0033	Unpacking of articles or materials, not otherwise provided for  • {Opening and emptying bags}  • • {for urine bags or medical drainage bags}  • {Removing or cutting binding material, e.g. straps or bands}  • {by cutting (B65B 69/0008-B65B 69/0025 take precedence)}  • • {by puncturing}  • {by expelling contents, e.g. by squeezing the
69/00 69/0008 69/0016 69/0025 69/0033 69/0041 69/005	Unpacking of articles or materials, not otherwise provided for  • {Opening and emptying bags}  • • {for urine bags or medical drainage bags}  • {Removing or cutting binding material, e.g. straps or bands}  • {by cutting (B65B 69/0008-B65B 69/0025 take precedence)}  • • {by puncturing}  • {by expelling contents, e.g. by squeezing the container}
69/00 69/0008 69/0016 69/0025 69/0033 69/0041 69/005	Unpacking of articles or materials, not otherwise provided for  • {Opening and emptying bags}  • • {for urine bags or medical drainage bags}  • {Removing or cutting binding material, e.g. straps or bands}  • {by cutting (B65B 69/0008-B65B 69/0025 take precedence)}  • • {by puncturing}  • {by expelling contents, e.g. by squeezing the container}  • • {Solid contents}
69/00 69/0008 69/0016 69/0025 69/0033 69/0041 69/005 69/0058 69/0066	Unpacking of articles or materials, not otherwise provided for  • {Opening and emptying bags}  • • {for urine bags or medical drainage bags}  • {Removing or cutting binding material, e.g. straps or bands}  • {by cutting (B65B 69/0008-B65B 69/0025 take precedence)}  • • {by puncturing}  • {by expelling contents, e.g. by squeezing the container}  • • {Solid contents}  • {Heating materials to facilitate their unpacking}  • {Emptying systems for flexible intermediate bulk

2210/00	Specific aspects of the packaging machine
2210/02	Plurality of alternative input or output lines or
	plurality of alternative packaging units on the same packaging line for improving machine flexibility
2210/04	Customised on demand packaging by determining a specific characteristic, e.g. shape or height, of articles or material to be packaged and selecting, creating or adapting a packaging accordingly, e.g. making a carton starting from web material
2210/06	Sterilising or cleaning machinery or conduits
2210/08	Cleaning nozzles, funnels or guides through
	which articles are introduced into containers or wrappers
2210/10	Means for removing bridges formed by the material or article, e.g. anti-clogging devices
2210/12	• Means for automatically detecting and removing jammed straps in strapping machines, e.g. jam clearing devices
2210/14	• Details of wrapping machines with web dispensers for application of a continuous web in layers onto the articles

2210/16	• the web dispenser travelling around the article
	along a non-rotating ring
2210/18	the web dispenser being mounted on a rotary ring
2210/20	• • the web dispenser being mounted on a rotary arm

# <u>Details of, auxiliary devices applied to, or auxiliary measures taken in, machines, apparatus, or methods, not otherwise provided for</u>

2220/00	Specific aspects of the packaging operation
2220/02	Erecting a carton by pushing a blank into a form
2220/04	• Means for, or method of collapsing containers with
	walls hinged together or detachably connected
2220/06	Cutting webs along their longitudinal direction
2220/08	Creating fin seals as the longitudinal seal on
	horizontal or vertical form fill seal [FFS] machines
2220/10	Creating an off-center longitudinal seal on
	horizontal or vertical form fill seal [FFS] machines
2220/12	• Creating additional longitudinal welds on horizontal
	or vertical form fill seal [FFS] machines for
	stiffening packages or for creating package edges
2220/14	Adding more than one type of material or article to
	the same package
2220/16	Packaging contents into primary and secondary
	packaging
2220/18	• the primary packaging being bags the subsequent
	secondary packaging being rigid containers, e.g.
	cardboard box
2220/20	• the primary packaging being bags, the secondary
	packaging being further bags, the primary bags
	being either finished or formed concurrently with
2220/22	the secondary bags
2220/22	Interconnected packages concurrently produced  from the same with the packages not being
	from the same web, the packages not being separated from one another
2220/24	Cooling filled packages
2220/24	• Coomig fined packages
2230/00	Aspects of the final package
2230/02	Containers having separate compartments isolated
	from one another (B65B 29/10 and B65B 2220/16
	take precedence)
2230/04	Cigarette packages having a hinged lid