CPC COOPERATIVE PATENT CLASSIFICATION

B PERFORMING OPERATIONS; TRANSPORTING

(NOTES omitted)

TRANSPORTING

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

B65G TRANSPORT OR STORAGE DEVICES, e.g. CONVEYORS FOR LOADING OR TIPPING, SHOP CONVEYOR SYSTEMS OR PNEUMATIC TUBE CONVEYORS

(packaging <u>B65B</u>; handling thin or filamentary materials, e.g. paper sheets or thread, <u>B65H</u>; cranes <u>B66C</u>; portable mobile or lifting or hauling appliances, e.g. hoists, <u>B66D</u>; devices for lifting or lowering goods for loading or unloading purposes, e.g. fork-lift trucks, <u>B66F 9/00</u>; emptying bottles, jars, casks, barrels or similar containers, not otherwise provided for, <u>B67C 9/00</u>; delivering or transferring liquids <u>B67D</u>; filling or discharging vessels for liquefied, solidified or compressed gases <u>F17C</u>; pipe-line systems for fluids <u>F17D</u>)

NOTE

This subclass <u>does not cover</u> road or railway vehicles, waterborne vessels or aircraft <u>per se</u>, or their adaptation for transport purposes. This subject matter is covered by classes <u>B60</u> - <u>B64</u>, for example in the following places:

- vehicles adapted for load transportation **B60P**;
- railway wagons adapted for load transportation **B61D**;
- hand carts **B62B**;
- superstructures for load-carrying vehicles <u>B62D 33/00</u>;
- loading or load-accommodating arrangements on ships or vessels <u>B63B 25/00</u>, <u>B63B 27/00</u>;
- equipment for handling freight in aircraft B64D 9/00

WARNINGS

1. The following IPC groups are not in the CPC scheme. The subject matter for these IPC groups is classified in the following CPC groups:

B65G 47/10 covered by B65G 1/1373
B65G 47/86 covered by B65G 47/842, B65G 47/847

 B65G 69/32
 covered by
 B65G 69/28

 B65G 69/34
 covered by
 B65G 69/28

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.

Storing; Stor	rage devices	1/0421	• • • { with control for stacker crane operations }
1/00	Storing articles, individually or in orderly	1/0428	• • • {Transfer means for the stacker crane between the alleys}
	arrangement, in warehouses or magazines (conveyor combinations in warehouses,	1/0435	• • • { with pulling or pushing means on either stacking crane or stacking area}
	magazines or workshops <u>B65G 37/00</u> ; stacking of articles <u>B65G 57/00</u> ; removing articles from	1/0442	• • • {for elongated articles (drill pipe racking E21B 19/14)}
1/02	stacks <u>B65G 59/00</u> ; loading machines <u>B65G 65/02</u>) Storage devices (furniture A47B; shop fittings	1/045	• • • {in a circular arrangement, e.g. towers}
1/02	A47F)	1/0457	• • • {with suspended load carriers}
1/023	• • {Arrangements of article supporting rollers on	1/0464	• • • { with access from above }
1,020	racks}	1/0471	• • • { with access from beneath }
1/026	• • {Racks equipped with a displaceable load	1/0478	• • • {for matrix-arrangements}
	carrying surface to facilitate loading or	1/0485	• • • {Check-in, check-out devices}
	unloading}	1/0492	• • • { with cars adapted to travel in storage aisles}
1/04	mechanical	1/06	with means for presenting articles for removal
1/0407	• • • {using stacker cranes (constructional features of stacker cranes <u>B66F 9/06</u>)}		at predetermined position or level (<u>B65G 1/12</u> takes precedence)
1/0414	• • • {provided with satellite cars adapted to travel in storage racks}	1/065	• • • { with self propelled cars }

1/07	• • • the upper article of a pile being always
	presented at the same predetermined level
1/08	• • • the articles being fed by gravity {(braking
	arrangements for roller-ways <u>B65G 13/075</u> ;
	separating or stopping elements
	<u>B65G 47/88</u>)}
1/10	with relatively movable racks to facilitate
	insertion or removal of articles {(cabinets with
	means for moving compartments up and down
	A47B 51/00; cabinet system, e.g. consisting of
	cabinets arranged in a row with means to open or close passages between adjacent cabinets
	A47B 53/02)}
1/12	• • with {separate} article supports or holders
1/12	movable in a closed circuit to facilitate
	insertion or removal of articles {the articles
	being books, documents, forms or the like}
1/127	the circuit being confined in a vertical plane
1/133	the circuit being confined in a horizontal
1/133	plane
1/137	with arrangements or automatic control means
	for selecting which articles are to be removed
1/1371	• • • {with data records}
1/1373	• • • { for fulfilling orders in warehouses }
1/1375	• • • • {the orders being assembled on a
	commissioning stacker-crane or truck}
1/1376	• • • • { the orders being assembled on a
	commissioning conveyor}
1/1378	• • • • {the orders being assembled on fixed
	commissioning areas remote from the
	storage areas}
1/14	Stack holders or separators
1/16	Special arrangements of articles in storage spaces
1/18	Articles inclined so as to be mutually self-
	supporting
1/20	Articles arranged in layers with spaces between
	articles
3/00	Storing bulk material or loose, i.e. disorderly,
	articles (filling or emptying storage spaces or
	containers, spreading-out or piling-up bulk material or
	loose articles <u>B65G 65/28</u> , <u>B65G 65/30</u> , <u>B65G 69/04</u>)
3/02	• in the open air (B65G 3/04 takes precedence)
3/04	• in bunkers, hoppers, or like containers
5/00	Storing fluids in natural or artificial cavities or
	chambers in the earth
5/005	• {in porous layers}

Devices assisting manual conveyance of articles ove short distances, e.g. in storage depots, warehouses or factories (chutes B65G 11/00; roller-ways B65G 13/00; luggage carriers A45C 13/38; holders or carriers for hand articles or for use while travelling or camping A45F 5/00; vehicles in general, axles, wheels B60; aircushion vehicles B60V; handcarts, sledges, features of hand-propelled wheeled devices or pedestrian-controlled, power-driven vehicles equally applicable to handcarts B62B; ship-moving devices B63C, E02C; containers, pallets B65D; air-cushions as bearing elements F16C 29/00)

7/00 Devices for assisting manual moving or tilting heavy loads (roller-ways <u>B65G 13/00</u>; for tilting and emptying barrels or casks <u>B65G 65/24</u>)

7/02

 Devices adapted to be interposed between loads and the ground or floor, e.g. crowbars with means for assisting conveyance of loads 7/04 . Rollers
 7/06 . using fluid at high pressure supplied from an independent source to provide a cushion between load and ground {(conveying articles over a flat surface by jets located in the surface B65G 51/00)}
 7/08 . for tilting the loads
 7/10 . for rolling cylindrical loads
 1/12 Load carriers, e.g. hooks, slings, harness, gloves, modified for load carrying

9/00 Apparatus for assisting manual handling having suspended load-carriers movable by hand or gravity

9/002 . {Load-carriers, rollers therefor}
9/004 . {Loading or unloading arrangements}
9/006 . {Arresting, braking or escapement means}
9/008 . {Rails or switches}

Chutes; Kinds or types of conveyors; Constructional features, details, or auxiliary devices peculiar to conveyors of particular types (feeding or discharging conveyors by devices incorporated in or operatively associated with conveyors <u>B65G 47/00</u>; loading or unloading <u>B65G 65/00</u>; escalators or moving walkways <u>B66B 21/00</u>; drag-line scraper conveyors E02F 3/46)

11/00	Chutes (used as storage devices <u>B65G 1/02</u>)
11/02	• of straight form
11/023	• • {for articles}
11/026	• • {for bulk}
11/04	. for mail in buildings
11/06	 of helical or spiral form
11/063	• • {for articles}
11/066	• • {for bulk}
11/08	. with discontinuous guiding surfaces, e.g. arranged
	in zigzag or cascade formation
11/081	• • {for articles (<u>B65G 11/085</u> takes precedence)}
11/083	• • {for bulk ($\underline{B65G 11/085}$ takes precedence)}
11/085	• • {with zig-zag formations}
11/086	• • { for articles }
11/088	• • • {for bulk}
11/10	• flexible
11/103	• • {for articles}
11/106	• • {for bulk}
11/12	 pivotable
11/123	• • {for articles}
11/126	• • {for bulk}
11/14	• extensible, e.g. telescopic
11/143	• • {for articles}
11/146	• • {for bulk}
11/16	 Interior surfaces; Linings
11/163	• • {for articles}
11/166	• • {for bulk}
11/18	 Supports or mountings
11/183	• • {for articles}
11/186	• • {for bulk}
11/20	• Auxiliary devices, e.g. for deflecting, controlling
	speed of, or agitating articles or solids
11/203	• • {for articles}

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• { for bulk }

12/00	D. II	15/50	
13/00	Roller-ways (storage devices comprising roller-	15/50	Endless load-carriers consisting of a series of parallel space or helt string.
	ways <u>B65G 1/02</u> ; endless-chain conveyors comprising load-supporting rollers <u>B65G 17/00</u> ; rollers or	15/50	parallel ropes or belt strips
	arrangements thereof B65G 39/00)	15/52	interconnected by transverse slats
13/02		15/54	Endless load-carriers made of interwoven ropes
13/02	having driven rollersall rollers driven	15/56	or wires
		15/56	• with edge-protecting or reinforcing means
13/06	• Roller driving means	15/58	• with means for holding or retaining the loads in
13/065	• • • {with displacement of the roller}	15/60	fixed position, e.g. magnetic
13/07	having endless driving elements	15/60	• Arrangements for supporting or guiding belts, e.g.
13/071	with frictional engagement	15/60	by fluid jets
13/073	comprising free-wheel gearing	15/62	. Guides for sliding belts
13/075	Braking means	15/64	for automatically maintaining the position of the belts
13/08	• of curved form; with branch-offs		beits
13/10	Switching arrangements	17/00	Conveyors having an endless traction element, e.g.
13/11	• Roller frames		a chain, transmitting movement to a continuous
13/12	adjustable		or substantially-continuous load-carrying surface
15/00	Conveyors having endless load-conveying surfaces,		or to a series of individual load-carriers; Endless-
20,00	i.e. belts and like continuous members, to which		chain conveyors in which the chains form the load-
	tractive effort is transmitted by means other than		carrying surface
	endless driving elements of similar configuration	17/002	• {comprising load carriers resting on the traction
	(having load-conveying surfaces formed by	1=100=	element}
	interconnected longitudinal links <u>B65G 17/06</u>)	17/005	• {comprising individual load carriers which are
15/005	• {the surface being formed by one rope}	17/007	movably mounted (<u>B65G 17/16</u> takes precedence)}
15/02	for conveying in a circular arc	17/007	• {for conveying the load on the lower run or on both
15/04	. the load being carried on the lower run of the	17/02	upper and lower runs of the conveyor}
	endless surface	17/02	. comprising a load-carrying belt attached to or
15/06	. with oppositely-moving parts of the endless surface	17/04	resting on the traction element
	located in the same plane and parallel to one another	17/04	the belt having loops forming load-receiving
15/08	 the load-carrying surface being formed by a concave 	17/06	pockets
	or tubular belt, e.g. a belt forming a trough	17/00	 having a load-carrying surface formed by a series of interconnected, e.g. longitudinal, links, plates, or
15/10	 comprising two or more co-operating endless 		platforms
	surfaces with parallel longitudinal axes, or a	17/061	• • {the load carrying surface being formed by
	multiplicity of parallel elements, e.g. ropes defining	177001	profiles, rods, bars, rollers or the like attached
	an endless surface		to a single traction element (B65G 17/24 takes
15/105	• • {the surface being formed by two or more ropes}		precedence)}
15/12	with two or more endless belts	17/062	• • {the profiles, rods, bars, rollers or the like
15/14	the load being conveyed between the belts		being interconnected by a mesh or grid-like
	{(<u>B65G 15/18</u> , <u>B65G 15/20</u> take precedence)}		structure}
15/16	between an auxiliary belt and a main belt	17/063	{the load carrying surface being formed by
15/18	the belts being sealed at their edges		profiles, rods, bars, rollers or the like attached
15/20	arranged side by side, e.g. for conveyance of		to more than one traction element (<u>B65G 17/24</u>
1.5/2.2	flat articles in vertical position		takes precedence)}
15/22	• comprising a series of co-operating units	17/064	• • • {the profiles, rods, bars, rollers or the like
15/24	in tandem		being interconnected by a mesh or grid-like
15/26	• extensible, e.g. telescopic {(adjustment of length	15/0/5	structure}
1.7/20	or configuration of load-carrier <u>B65G 21/14</u>)}	17/065	• • {the load carrying surface being formed by plates
15/28	• Conveyors with a load-conveying surface formed by	17/0//	or platforms attached to a single traction element}
15/20	a single flat belt, not otherwise provided for	17/066	• • • (specially adapted to follow a curved path (for
15/30	Belts or like endless load-carriers (co-operating with	17/077	individual load carriers <u>B65G 17/22</u>)}
	rails or the like <u>B65G 21/22</u> ; {co-operating} with rollers <u>B65G 39/20</u>)	17/067	• • {the load carrying surface being formed by plates
15/32	• made of rubber or plastics		or platforms attached to more than one traction element}
		17/068	• • • {specially adapted to follow a curved path (for
15/34	• • • with reinforcing layers, e.g. of fabric	17/008	individual load carriers <u>B65G 17/22</u>)}
15/36	 the layers incorporating ropes, chains, or rolled steel sections 	17/08	the surface being formed by the traction element
15/38	• • • with flame-resistant layers, e.g. of asbestos,	17/08	 the surface being formed by the traction element {the surface being formed by profiles, rods,
13/30	glass	1 // 003	bars, rollers or the like}
15/40	• • • troughed or tubular; formed with joints	17/086	• • • {specially adapted to follow a curved path (for
13/40	facilitating troughing	17/000	individual load carriers <u>B65G 17/22</u>)}
15/42	having ribs, ridges, or other surface projections	17/10	the surface forming a longitudinal trough
15/44	for impelling the loads	17/10	 comprising a series of individual load-carriers fixed,
15/44	formed with guides	1//12	or normally fixed, relative to traction element
15/48	normed with guides . metallic		or normany tixed, relative to traction element
13/40	· · metanic		

Chutes; Kinds or types of conveyors; Constructional features, details, or auxiliary devices peculiar to conveyors of...

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17/123	• • {arranged to keep the load-carriers horizontally during at least a part of the conveyor run}	19/12	• • the impellers being plates having an area substantially smaller than that of the trough of
17/126	• • {Bucket elevators}	4044	channel cross-section
17/14	with two spaced connections to traction element	19/14	• for moving bulk material in closed conduits, e.g.
17/16	 comprising individual load-carriers which are pivotally mounted, e.g. for free-swinging movement (guides inverting or tilting load-carriers for emptying {B65G 47/38; B65G 17/20 takes precedence}) 	19/16 19/165	 tubes the impellers being elements having an area substantially smaller than that of the conduit cross-section {the impellers being endless helical springs}
17/18	and move in contact with a guiding surface	19/103	. • {the impeners being endiess hencal springs}. Details
17/20 17/22	 comprising load-carriers suspended from overhead traction chains with oppositely-moving parts of the conveyor 	19/185	• • {for article conveyors, e.g. for container conveyors (B65G 19/20, B65G 19/22, B65G 19/28 take precedence)}
17/22	located in a common plane {and being formed by	19/20	Traction chains, ropes, or cables
	individual load carriers only}	19/205	• • • {for article conveyors, e.g. for container
17/24	comprising a series of rollers which are moved	17/203	conveyors}
17,72.	{, e.g. over a supporting surface, by the traction element to effect conveyance of loads or load-	19/22	Impellers, e.g. push-plates, scrapers; Guiding means therefor
17/06	carriers}	19/225	• • • {for article conveyors, e.g. for container
17/26	• comprising a series of co-operating units, e.g.		conveyors (<u>B65G 19/24</u> takes precedence)}
17/00	interconnected by pivots	19/24	Attachment of impellers to traction element
17/28	extensible, e.g. telescopic {(adjustment of length or configuration of traction element	19/245	• • • { for article conveyors, e.g. for container conveyors (<u>B65G 19/26</u> takes precedence) }
17/20	B65G 21/14)}	19/26	pivotal
17/30	 Details; Auxiliary devices (belts <u>B65G 15/30</u>; framework <u>B65G 21/00</u>) 	19/265	• • • • (for article conveyors, e.g. for container conveyors)
17/32	Individual load-carriers	19/28	Troughs, channels, or conduits
17/323	• • • {Grippers, e.g. suction or magnetic}	19/282	• • • {for article conveyors, e.g. for container
17/326	• • • {Clamps, constituted by articulated chain		conveyors (<u>B65G 19/30</u> takes precedence)}
	links}	19/285	• • • { with detachable or replaceable parts, e.g.
17/34	• • • having flat surfaces, e.g. platforms, grids, forks		replaceable wear channels (B65G 19/282 takes
17/345	• • • { the surfaces being equipped with a		precedence)}
	conveyor}	19/287	{Coupling means for trough sections
17/36	• • • having concave surfaces, e.g. buckets		$(\underline{B65G \ 19/282} \ takes \ precedence)$
17/365	• • • {having open bottom buckets}	19/30	• • • with supporting surface modified to facilitate
17/38	• Chains or like traction elements (drive chains <u>F16G 13/00</u>); Connections between		movement of loads, e.g. friction reducing devices
17/207	traction elements and load-carriers	19/303	• • • • {for article conveyors, e.g. for container
17/385	• • • {adapted to follow three-dimensionally curved	40/004	conveyors}
17/40	paths}	19/306	• • • • {the supporting surface being provided
17/40	Chains acting as load-carriers		with rollers}
17/42	Attaching load carriers to traction elements	21/00	Supporting or protective framework or housings
17/44	• • • by means excluding relative movements		for endless load-carriers or traction elements of
17/46	Means for holding or retaining the loads in fixed		belt or chain conveyors
17/40	position on the load-carriers, e.g. magnetic	21/005	 {for conveyors floating on liquids}
17/48	Controlling attitudes of load-carriers during	21/02	 consisting essentially of struts, ties, or like structural
	movement ({B65G 17/18 takes precedence;} guides B65G 21/20; inverting or tilting load		elements
	carriers to discharge contents <u>B65G 47/38</u>)	21/04	the ties being formed by longitudinal cables or
17/485	• • {the load carriers being suspended}	21/06	ropes
19/00	Conveyors comprising an impeller or a series of	21/06	 constructed to facilitate rapid assembly or dismantling
19/00	impellers carried by an endless traction element	21/08	Protective roofs or arch supports therefor
	and arranged to move articles or materials over		 Protective roots of arch supports therefor movable, or having interchangeable or relatively
	a supporting surface or underlying material, e.g. endless scraper conveyors	21/10	movable parts; Devices for moving framework or parts thereof
19/02	• for articles, e.g. for containers	21/105	• • {having demountable driving or return heads}
19/025	. (for suspended articles)	21/103	 • { naving demountable driving of return heads} • to allow adjustment of position of load-carrier or
19/023	 for suspended afficies; for moving bulk material in open troughs or 	21/12	traction element as a whole
19/04	channels	21/14	to allow adjustment of length or configuration of
19/06	the impellers being scrapers similar in size and	∠1/1 ' †	load-carrier or traction element (varying speed of
17/00	shape to the cross-section of the trough or channel		conveyance by adjusting configuration of load-
19/08	and attached to a single belt, rope or chain		carrier <u>B65G 23/00</u> ; {tensioning arrangements for
19/08	and attached to a pair of belts, ropes or chains		belt or chain <u>B65G 23/44</u> })
17/10	• • • and attached to a pair of bents, topes of chains		= == =================================

Chutes; Kinds or types of conveyors; Constructional features, details, or auxiliary devices peculiar to conveyors of...

21/16	 for conveyors having endless load-carriers movable in curved paths 	23/32	 for effecting drive at two or more points spaced along the length of the conveyors
21/18 21/20	 in three-dimensionally curved paths Means incorporated in, or attached to, framework 	23/34	 comprising a single motor coupled to spaced driving elements
21,20	or housings for guiding load-carriers, traction	23/36	comprising two or more driving motors each
	elements or loads supported on moving surfaces	23/30	coupled to a separate driving element, e.g. at
	(arrangements for supporting belts <u>B65G 15/60</u> ;		either end of the conveyors
	rollers or roller arrangements B65G 39/00)	23/38	•
21/2009		23/36	 for effecting intermittent movement of belts or chains
	• • {Magnetic retaining means}	22/40	
21/2018	• • • { for retaining the load on the load-carrying	23/40	Applications of pawl and ratchet mechanisms or
	surface, (retaining loads by magnetic load-		Geneva wheels
	carriers, e.g. belts <u>B65G 15/58</u> , chains	23/42	 Reciprocating members engaging successive
	B65G 17/46; individual magnetic grippers		abutments on belts or chains
	<u>B65G 17/323</u>)}	23/44	 Belt or chain tensioning arrangements
21/2027	• • {Suction retaining means}	25/00	Conveyors comprising a cyclically-moving,
21/2036	• • • { for retaining the load on the load-carrying	23/00	e.g. reciprocating, carrier or impeller which is
	surface (individual suction grippers		disengaged from the load during the return part of
	<u>B65G 17/323</u>)}		its movement (jigging <u>B65G 27/00</u>)
21/2045	• • {Mechanical means for guiding or retaining the	25/02	• the carrier or impeller having different forward
	load on the load-carrying surface}	25/02	
21/2054	• • • {comprising elements movable in the direction		and return paths of movement, e.g. walking beam
	of load-transport}	25/04	conveyors
21/2063	{comprising elements not movable in the	25/04	• the carrier or impeller having identical forward
	direction of load-transport}		and return paths of movement, e.g. reciprocating
21/2072	{Laterial guidance means}		conveyors
21/2081	• • • • {for bulk material, e.g. skirts}	25/06	having carriers, e.g. belts
21/209	{for augmenting or creating a pression force	25/065	• • • {Reciprocating floor conveyors}
21,202	between the load and the load-carrying	25/08	• • having impellers, e.g. pushers
	surface}	25/10	• • • with impeller pivotally mounted on a
21/22	Rails or the like engaging sliding elements		reciprocating bar
_1,	or rollers attached to load-carriers or traction	25/12	with impeller fixed to a reciprocating bar and
	elements		the bar being rotated about its longitudinal axis
			on its return stroke
23/00	Driving gear for endless conveyors; Belt- or chain-	27/00	
23/00	Driving gear for endless conveyors; Belt- or chain- tensioning arrangements	27/00	Jigging conveyors
23/00 23/02	tensioning arrangements Belt- or chain-engaging elements	27/00 27/02	Jigging conveyors . comprising helical or spiral channels or conduits for
	 tensioning arrangements Belt- or chain-engaging elements Drums, rollers, or wheels {(B65G 23/18 takes) 	27/02	Jigging conveyors comprising helical or spiral channels or conduits for elevation of materials
23/02	tensioning arrangements Belt- or chain-engaging elements		Jigging conveyors . comprising helical or spiral channels or conduits for elevation of materials . Load carriers other than helical or spiral channels or
23/02	 tensioning arrangements Belt- or chain-engaging elements Drums, rollers, or wheels {(<u>B65G 23/18</u> takes precedence)} 	27/02 27/04	Jigging conveyors comprising helical or spiral channels or conduits for elevation of materials Load carriers other than helical or spiral channels or conduits
23/02 23/04	 tensioning arrangements Belt- or chain-engaging elements Drums, rollers, or wheels {(B65G 23/18 takes) 	27/02 27/04 27/06	Jigging conveyors comprising helical or spiral channels or conduits for elevation of materials Load carriers other than helical or spiral channels or conduits Joints connecting load-carrier sections
23/02 23/04	 tensioning arrangements Belt- or chain-engaging elements Drums, rollers, or wheels {(B65G 23/18 takes precedence)} with projections engaging abutments on belts 	27/02 27/04	 Jigging conveyors comprising helical or spiral channels or conduits for elevation of materials Load carriers other than helical or spiral channels or conduits Joints connecting load-carrier sections Supports or mountings for load-carriers, e.g.
23/02 23/04 23/06	 tensioning arrangements Belt- or chain-engaging elements Drums, rollers, or wheels {(B65G 23/18 takes precedence)} with projections engaging abutments on belts or chains, e.g. sprocket wheels 	27/02 27/04 27/06	Jigging conveyors comprising helical or spiral channels or conduits for elevation of materials Load carriers other than helical or spiral channels or conduits Joints connecting load-carrier sections Supports or mountings for load-carriers, e.g. framework, bases, spring arrangements {(spring
23/02 23/04 23/06 23/08	 tensioning arrangements Belt- or chain-engaging elements Drums, rollers, or wheels {(B65G 23/18 takes precedence)} with projections engaging abutments on belts or chains, e.g. sprocket wheels with self-contained driving mechanisms, e.g. motors and associated gearing 	27/02 27/04 27/06	Jigging conveyors comprising helical or spiral channels or conduits for elevation of materials Load carriers other than helical or spiral channels or conduits Joints connecting load-carrier sections Supports or mountings for load-carriers, e.g. framework, bases, spring arrangements {(spring arrangements as jigging movement transmitting
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23/02 23/04 23/06 23/08 23/10 23/12	 tensioning arrangements Belt- or chain-engaging elements Drums, rollers, or wheels {(B65G 23/18 takes precedence)} with projections engaging abutments on belts or chains, e.g. sprocket wheels with self-contained driving mechanisms, e.g. motors and associated gearing arranged intermediate the ends of the conveyors Arrangements of co-operating drums or rollers to augment tractive effort applied to the belts 	27/02 27/04 27/06 27/08	 Jigging conveyors comprising helical or spiral channels or conduits for elevation of materials Load carriers other than helical or spiral channels or conduits Joints connecting load-carrier sections Supports or mountings for load-carriers, e.g. framework, bases, spring arrangements {(spring arrangements as jigging movement transmitting units B65G 27/10)} Applications of devices for generating or transmitting jigging movements of shaking devices, i.e. devices for producing
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23/02 23/04 23/06 23/08 23/10 23/12 23/14	 tensioning arrangements Belt- or chain-engaging elements Drums, rollers, or wheels {(B65G 23/18 takes precedence)} with projections engaging abutments on belts or chains, e.g. sprocket wheels with self-contained driving mechanisms, e.g. motors and associated gearing arranged intermediate the ends of the conveyors Arrangements of co-operating drums or rollers to augment tractive effort applied to the belts Endless driving elements extending parallel to belt or chain {(B65G 23/18 takes precedence)} 	27/02 27/04 27/06 27/08 27/10	 Jigging conveyors comprising helical or spiral channels or conduits for elevation of materials Load carriers other than helical or spiral channels or conduits Joints connecting load-carrier sections Supports or mountings for load-carriers, e.g. framework, bases, spring arrangements {(spring arrangements as jigging movement transmitting units B65G 27/10)} Applications of devices for generating or transmitting jigging movements of shaking devices, i.e. devices for producing
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23/02 23/04 23/06 23/08 23/10 23/12 23/14 23/16 23/18	 tensioning arrangements Belt- or chain-engaging elements Drums, rollers, or wheels {(B65G 23/18 takes precedence)} with projections engaging abutments on belts or chains, e.g. sprocket wheels with self-contained driving mechanisms, e.g. motors and associated gearing arranged intermediate the ends of the conveyors Arrangements of co-operating drums or rollers to augment tractive effort applied to the belts Endless driving elements extending parallel to belt or chain {(B65G 23/18 takes precedence)} with dogs engaging abutments on belts or chains Suction or magnetic elements 	27/02 27/04 27/06 27/08 27/10 27/12 27/14	 Jigging conveyors comprising helical or spiral channels or conduits for elevation of materials Load carriers other than helical or spiral channels or conduits Joints connecting load-carrier sections Supports or mountings for load-carriers, e.g. framework, bases, spring arrangements {(spring arrangements as jigging movement transmitting units B65G 27/10)} Applications of devices for generating or transmitting jigging movements of shaking devices, i.e. devices for producing movements of low frequency and large amplitude hydraulic of vibrators, i.e. devices for producing
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23/02 23/04 23/06 23/08 23/10 23/12 23/14 23/16 23/18 23/19 23/20	 tensioning arrangements Belt- or chain-engaging elements Drums, rollers, or wheels {(B65G 23/18 takes precedence)} with projections engaging abutments on belts or chains, e.g. sprocket wheels with self-contained driving mechanisms, e.g. motors and associated gearing arranged intermediate the ends of the conveyors Arrangements of co-operating drums or rollers to augment tractive effort applied to the belts Endless driving elements extending parallel to belt or chain {(B65G 23/18 takes precedence)} with dogs engaging abutments on belts or chains Suction or magnetic elements Suction elements Screws 	27/02 27/04 27/06 27/08 27/10 27/12 27/14 27/16	 Jigging conveyors comprising helical or spiral channels or conduits for elevation of materials Load carriers other than helical or spiral channels or conduits Joints connecting load-carrier sections Supports or mountings for load-carriers, e.g. framework, bases, spring arrangements {(spring arrangements as jigging movement transmitting units B65G 27/10)} Applications of devices for generating or transmitting jigging movements of shaking devices, i.e. devices for producing movements of low frequency and large amplitude hydraulic of vibrators, i.e. devices for producing movements of high frequency and small amplitude
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23/02 23/04 23/06 23/08 23/10 23/12 23/14 23/16 23/18 23/19 23/20 23/22 23/23 23/24	 tensioning arrangements Belt- or chain-engaging elements Drums, rollers, or wheels {(B65G 23/18 takes precedence)} with projections engaging abutments on belts or chains, e.g. sprocket wheels with self-contained driving mechanisms, e.g. motors and associated gearing arranged intermediate the ends of the conveyors Arrangements of co-operating drums or rollers to augment tractive effort applied to the belts Endless driving elements extending parallel to belt or chain {(B65G 23/18 takes precedence)} with dogs engaging abutments on belts or chains Suction or magnetic elements Suction elements Screws Arrangements or mountings of driving motors {(B65G 23/08 takes precedence)} of electric linear motors Gearing between driving motor and belt- or chainengaging elements (contained in drums, rollers or wheels B65G 23/08) Applications of clutches or brakes Arrangements for equalising the drive to several elements 	27/02 27/04 27/06 27/08 27/10 27/12 27/14 27/16 27/18 27/20 27/22 27/24 27/26 27/28 27/30	Jigging conveyors comprising helical or spiral channels or conduits for elevation of materials Load carriers other than helical or spiral channels or conduits Joints connecting load-carrier sections Supports or mountings for load-carriers, e.g. framework, bases, spring arrangements {(spring arrangements as jigging movement transmitting units B65G 27/10)} Applications of devices for generating or transmitting jigging movements of shaking devices, i.e. devices for producing movements of low frequency and large amplitude hydraulic of vibrators, i.e. devices for producing movements of high frequency and small amplitude Mechanical devices {(B65G 27/26 takes precedence)} recedence)} retarrier Hydraulic or pneumatic devices Hydraulic or pneumatic devices Hydraulic or pneumatic devices with elastic coupling between vibrator and load carrier with provision for dynamic balancing by means of an oppositely-moving mass, e.g. a second conveyor
23/02 23/04 23/06 23/08 23/10 23/12 23/14 23/16 23/18 23/19 23/20 23/22 23/23 23/24	 tensioning arrangements Belt- or chain-engaging elements Drums, rollers, or wheels {(B65G 23/18 takes precedence)} with projections engaging abutments on belts or chains, e.g. sprocket wheels with self-contained driving mechanisms, e.g. motors and associated gearing arranged intermediate the ends of the conveyors Arrangements of co-operating drums or rollers to augment tractive effort applied to the belts Endless driving elements extending parallel to belt or chain {(B65G 23/18 takes precedence)} with dogs engaging abutments on belts or chains Suction or magnetic elements Suction elements Screws Arrangements or mountings of driving motors {(B65G 23/08 takes precedence)} of electric linear motors Gearing between driving motor and belt- or chainengaging elements (contained in drums, rollers or wheels B65G 23/08) Applications of clutches or brakes Arrangements for equalising the drive to several 	27/02 27/04 27/06 27/08 27/10 27/12 27/14 27/16 27/18 27/20 27/22 27/24 27/26 27/28	Jigging conveyors comprising helical or spiral channels or conduits for elevation of materials Load carriers other than helical or spiral channels or conduits Joints connecting load-carrier sections Supports or mountings for load-carriers, e.g. framework, bases, spring arrangements {(spring arrangements as jigging movement transmitting units B65G 27/10)} Applications of devices for generating or transmitting jigging movements of shaking devices, i.e. devices for producing movements of low frequency and large amplitude hydraulic of vibrators, i.e. devices for producing movements of high frequency and small amplitude Mechanical devices {(B65G 27/26 takes precedence)} rotating unbalanced masses Hydraulic or pneumatic devices Hydraulic or pneumatic devices Hydraulic or pneumatic devices with elastic coupling between vibrator and load carrier with provision for dynamic balancing by means of an oppositely-moving mass, e.g. a

Chutes; Kinds or types of conveyors; Constructional features, details, or auxiliary devices peculiar to conveyors of...

27/34	comprising a series of co-operating units	37/00	Combinations of mechanical conveyors of the
29/00	Rotary conveyors, e.g. rotating discs, arms, star- wheels or cones (mechanical projectors <u>B65G 31/00</u> ;		same kind, or of different kinds, of interest apart from their application in particular machines or use in particular manufacturing
29/02	screw or rotary spiral conveyors <u>B65G 33/00</u>) • for inclined or vertical transit		processes (series of co-operating belt conveyor units <u>B65G 15/22</u> ; series of co-operating chain
31/00	Mechanical throwing machines for articles or solid materials		conveyor units <u>B65G 17/26</u> ; sequence control of combined conveyors <u>B65G 43/10</u>)
31/02	• comprising belts	37/005	• {comprising two or more co-operating conveying
31/04	• comprising discs, drums, or like rotary impellers		elements with parallel longitudinal axes (the conveying elements being endless surfaces
33/00	Screw or rotary spiral conveyors	27/02	<u>B65G 15/10</u>)}
33/02	• for articles	37/02	 Flow-sheets for conveyor combinations in warehouses, magazines or workshops
33/04	conveyed between a single screw and guiding means		wateriouses, magazines of workshops
33/06	conveyed and guided by parallel screws	Common fea	atures or details of, or auxiliary devices applicable
33/08	for fluent solid materials		s of different kinds or types; Feeding or discharging
33/10	with non-enclosed screws	devices inco	rporated in, or operatively associated with, conveyors
33/12	with screws formed by straight tubes or drums	39/00	Rollers, e.g. drive rollers, or arrangements thereof
	having internal threads, or by spiral or helical		incorporated in roller-ways or other types of
	tubes		mechanical conveyors (driving gear for rollers of
33/14	comprising a screw or screws enclosed in a		roller-ways <u>B65G 13/06</u>)
	tubular housing	39/02	Adaptations of individual rollers and supports
33/16	• • • with flexible screws operating in flexible tubes		therefor
33/18	• • • with multiple screws in parallel arrangements	39/025	• • {having spherical roller elements}
22/20	{, e.g. concentric}	39/04	• • the rollers comprising a number of roller forming elements mounted on a single axle
33/20 33/22	 the housing being rotatable relative to the screw with means for retarding material flow at the	39/06	• the roller sleeves being shock-absorbing, e.g.
33/22	delivery end of the housing	37/00	formed by helically-wound wires
33/24	Details	39/07	Other adaptations of sleeves
33/26	Screws	39/071	for aligning belts or sheets
33/265	• • • { with a continuous helical surface (flexible	39/073	for cleaning belts
	screws <u>B65G 33/16</u>)}	39/08	the rollers being magnetic
33/30	with a discontinuous helical surface	39/09	Arrangements of bearing or sealing means
33/32	 Adaptations of bearings or couplings for 	39/10	 Arrangements of rollers (on a single axle
	supporting and connecting screws (<u>B65G 33/16</u>		<u>B65G 39/04</u>)
22/24	takes precedence)	39/12	mounted on framework
33/34 33/36	 Applications of driving gear for rotating housing and screw at different 	39/125	• • • (for selectively adjusting troughing of the
33/30	speeds	39/14	conveying belt
33/38	for effecting simultaneous rotation and	39/14	• • • Spring-supported sets, e.g. permitting troughing of a load-carrying belt
	reciprocation of screw	39/145	 {attached to ties formed by longitudinal cables or ropes}
35/00	Mechanical conveyors not otherwise provided for	39/16	• • • for aligning belts or chains
35/005	• {with peristaltic propulsion along a flexible tube}	39/18	for guiding loads
35/02	• comprising an endless traction element, e.g. a belt,	39/20	attached to moving belts or chains
	arranged to roll cylindrical articles over a supporting surface		
35/04	• comprising a flexible load carrier, e.g. a belt, which	41/00	Supporting frames or bases for conveyors as a whole, e.g. transportable conveyor frames
33/04	is wound up at one end and paid out at the other	41/001	• {with the conveyor adjustably mounted on the
	(reciprocating belt conveyors <u>B65G 25/06</u>)	41/001	supporting frame or base}
35/06	 comprising a load-carrier moving along a path, 	41/002	• • {Pivotably mounted}
	e.g. a closed path, and adapted to be engaged by	41/003	• • {mounted for linear movement only}
	any one of a series of traction elements spaced	41/005	• • {mounted for both pivotal and linear movement}
	along the path (effecting drive at two or more points spaced along the length of an endless	41/006	• {with the conveyor not adjustably mounted on the
	conveyor <u>B65G 23/32</u>)		supporting frame or base}
35/063	• • {the traction element being a rotating bar or tube}	41/007	• {Means for moving conveyor frames and control
35/066	• • (the bar or the tube being provided with a		arrangements therefor (<u>B65G 41/02</u> takes
	helical or annular channel}	41/000	precedence)}
35/08	• comprising trains of unconnected load-carriers, e.g.	41/008	 • {frames mounted on wheels or caterpillar (for movement on rail tracks <u>B65G 41/02</u>)}
	belt sections, movable in a path, e.g. a closed path,	41/02	• Frames mounted on wheels for movement on rail
	adapted to contact each other and to be propelled by	71/02	tracks
	means arranged to engage each load-carrier in turn		

Common features or details of, or auxiliary devices applicable to, conveyors of different kinds or types; Feeding or...

43/00	Control devices, e.g. for safety, warning or fault-correcting	47/1414	• • • • • {by means of movement of at least the whole wall of the container}
	NOTE	47/1421	• • • • • {Vibratory movement}
		47/1428	• • • • • {rotating movement}
	in this group the following indexing codes are used: B65G 2811/0673	47/1435	{using the centrifugal effect to arrange or orientate the articles}
	B65G 2812/02099 - B65G 2812/02108	47/1442	• • • • • {by means of movement of the bottom or a part of the wall of the container
43/02	 detecting dangerous physical condition of load carriers, e.g. for interrupting the drive in the event 		(devices using suction or magnetic forces <u>B65G 47/1485</u>)}
	of overheating	47/145	{Jigging or reciprocating movement}
43/04	 detecting slip between driving element and load- carrier, e.g. for interrupting the drive {(B65G 43/02 takes precedence)} 	47/1457 47/1464	 {Rotating movement in the plane of the rotating part} {using the centrifugal effect to
43/06	interrupting the drive in case of driving element breakage; Braking or stopping loose load-carriers	47/1471	arrange or orientate the articles} {Movement in one direction,
43/08	. Control devices operated by article or material being		substantially outwards}
	fed, conveyed or discharged {(and controlling the discharging devices <u>B65G 47/42</u>)}	47/1478	• • • • • {by means of pick-up devices, the container remaining immobile}
43/10	Sequence control of conveyors operating in	47/1485	• • • • • {using suction or magnetic forces}
	combination	47/1492	{the articles being fed from a feeding conveyor}
45/00	Lubricating, cleaning, or clearing devices	47/16	• • for feeding materials in bulk
45/005	• {Cleaning conveyor screws}	47/18	Arrangements or applications of hoppers or
45/02	 Lubricating devices 	.,,10	chutes
45/04	for rollers	47/19	having means for controlling material flow,
45/06	forming belt troughing structure		e.g. to prevent overloading
45/08	for chains	47/20	• • • the hoppers or chutes being movable
45/10	• Cleaning devices (adaptations of roller sleeves for cleaning belts <u>B65G 39/073</u>)	47/22	 Devices influencing the relative position or the attitude of articles during transit by conveyors
45/105	• • {comprising vibrating means}		(during feeding <u>B65G 47/14</u>)
45/12	comprising scrapers	47/24	• orientating the articles
45/14 45/16	 Moving scrapers with scraper biasing means	47/244	• • • by turning them about an axis substantially
45/18	comprising brushes	47/2445	perpendicular to the conveying plane {by means of at least two co-operating}
45/20	comprising strews	47/2443	endless conveying elements}
45/22	comprising fluid applying means	47/248	by turning over or inverting them
45/24	comprising plural diverse cleaning devices		(<u>B65G 47/244</u> takes precedence)
45/26	• • for gathering residue after cleaning	47/252	about an axis substantially perpendicular to the conveying direction
47/00	Article or material-handling devices associated with conveyors; Methods employing such devices	47/256	• • removing incorrectly orientated articles
47/02	. Devices for feeding articles or materials to	47/26	• arranging the articles, e.g. varying spacing between individual articles
47/04	conveyors for feeding articles	47/261	{Accumulating articles}
47/06	from a single group of articles arranged in	47/263	• • • • {the conveyor drive is taken from a
.,,,,	orderly pattern, e.g. workpieces in magazines (de-stacking devices B65G 59/00)	47/265	longitudinally extending shaft} { with one or more load advancing units travelling along the entire length of the
47/08	feeding (during transit by conveyor	47/266	accumulation line} {by means of a series of pivotable stop
47/082	B65G 47/28) {grouping articles in rows}		elements}
47/082	{grouping articles in rows} {grouping articles in a predetermined 2-	47/268	• • • • {by means of belt or chain conveyor}
177001	dimensional pattern}	47/28	during transit by a single conveyor
47/086	{cubiform articles}	47/29	by temporarily stopping movement {(stopping elements <u>B65G 47/88)</u> }
47/088	{cylindrical articles}	47/295	(stopping elements <u>Bo3G 47/88</u>)} • • • • {by means of at least two stopping
47/12	from disorderly-arranged article piles or from	T114/J	elements}
	loose assemblages of articles	47/30	during transit by a series of conveyors
47/14	arranging or orientating the articles by	47/31	by varying the relative speeds of the
	mechanical or pneumatic means during feeding (during transit by conveyor		conveyors forming the series
47/1407	B65G 47/24, B65G 47/26)	47/32	Applications of transfer devices {(such devices per se B65G 47/74)}
4//140/	• • • • { the articles being fed from a container, e.g. a bowl}	47/34	 Devices for discharging articles or materials from conveyor (<u>B65G 47/256</u> takes precedence)

Common features or details of, or auxiliary devices applicable to, conveyors of different kinds or types; Feeding or...

47/36	 by detaching suspended articles 	47/5168	• • • • • • {by relative displacement between
47/38	• • by dumping, tripping, or releasing load carriers		conveyor and conveyor in- or
	(by flexing or tilting travelling structures	45/5150	output means}
45.40	<u>B65G 47/94</u>)	47/5172	{by relative displacement between
47/40	by tilting conveyor buckets		conveyors or conveyor parts and
47/42	• operated by article or material being conveyed	47/5177	bridging means therebetween}
	and discharged {(<u>B65G 47/46</u> takes precedence)}	47/5177	{using rotary conveyor(s)}
47/44	Arrangements or applications of hoppers or	47/5181	{using stacking or destacking
	chutes		arrangements or stacks of articles or
47/46	and distributing, e.g. automatically, to desired	47/5106	article-carriers}
4=446	points (in tube mail systems <u>B65G 51/36</u>)	47/5186	• • • • { with recirculation means }
47/48	according to bodily destination marks on either	47/519	{collecting tables or bins as end-station}
45.400	articles or load-carriers	47/5195	{for materials in bulk}
47/482	{using exclusively mechanical transmitting	47/52	. Devices for transferring articles or materials
	means between destination marks and		between conveyors i.e. discharging or feeding
47/405	switching means}		devices (loading or unloading by means not
47/485	{ using electric or electronic transmitting		incorporated in, or not operatively associated with, conveyors <u>B65G 65/00</u> ; transfer of workpieces
	means between destination marks and		during metal rolling <u>B21B 41/00</u>)
47/407	switching means}	47/525	• • {using fluid jets}
47/487	{the destination marks being mechanically	47/53	 tusing finite jets j between conveyors which cross one another
47/40	detected}		
47/49	without bodily contact between article or	47/54	at least one of which is a roller-way
	load carrier and automatic control device {, e.g. the destination marks being electrically	47/56	to or from inclined or vertical conveyor sections
	or electronically detected}	47/57	for articles
47/493	{by use of light responsive means}	47/58	for materials in bulk
47/493 47/496	{by use of night responsive means} {by use of magnetic responsive means}	47/60	• to or from conveyors of the suspended, e.g.
			trolley, type
47/50	according to destination signals stored in	47/61	for articles
47/503	separate systems	47/62	for materials in bulk
47/303	• • • {the system comprising endless moving means}	47/64	Switching conveyors
17/506	{the system comprising a shift-register}	47/641	• • • {by a linear displacement of the switching
47/506			conveyor}
47/51	 according to unprogrammed signals, e.g. influenced by supply situation at destination 	47/642	• • • {in a horizontal plane}
47/5104		47/643	• • • {in a vertical plane}
47/5104	(first In First Out systems FIFO)	47/644	• • • {by a pivoting displacement of the switching
47/5109	• • • • { first In - First Out systems: FIFO}		conveyor}
47/5113	(B65G 47/5145 takes precedence)	47/645	• • • {about a horizontal axis}
47/5118	• • • • • {with variable accumulation capacity}	47/646	• • • • { the axis being parallel to the conveying
			direction}
47/5122	• • • • • • {by displacement of the conveyor-	47/647	• • • • {the axis being perpendicular to the
	guiding means, e.g. of the loose pulley-type (<u>B65G 47/5127</u> takes		conveying direction}
	princy-type (B03G 47/3127 takes) precedence)}	47/648	• • • {about a vertical axis}
47/5127		47/66	• • Fixed platforms or combs, e.g. bridges between
4//312/	conveyor and input or output}		conveyors
47/5131	• • • • • • • {by relative displacement between	47/68	adapted to receive articles arriving in one layer
47/3131	conveyors or conveyor parts and		from one conveyor {lane} and to transfer them in
	bridging means therebetween}		individual layers to more than one conveyor {lane
47/5136	• • • • • {using rotary conveyors}		or to one broader conveyor lane}, or vice versa,
47/514	{using stacking and/or destacking		e.g. combining the flows of articles conveyed by
177511	arrangements or stacks of articles or	47/691	more than one conveyor
	article carriers}	47/681 47/682	{from distinct, separate conveyor lanes}
47/5145	• • • • { with recirculation means }	47/682	• • {from a single conveyor lane consisting of one conveyor or several adjacent conveyors}
47/515	• • • • • (First In-Last Out systems [FILO]; Last	47/683	• • • { with tilting of at least part of the conveyor
	In-First Out systems [LIFO]}	47/003	to make use of gravity}
47/5154	• • • • • {using endless conveyors	17/691	- · · · · · · · · · · · · · · · · · · ·
	(B65G 47/5186 takes precedence)	47/684	• • • { with recirculation of articles forming a buffer}
47/5159	• • • • • {with variable accumulation capacity}	2017/695	,
47/5163	{by displacement of conveyor-	2047/685	• • {Devices for preventing jamming in converging flows}
	guiding means, e.g. of the loose	2047/686	{Lane boundaries which reciprocate or
	pulley type (B65G 47/5168 takes	2047/000	oscillate, e.g. vibrating boundaries}
	precedence)}	2047/687	{Lane boundaries which comprise rotatable
		2047/007	elements, e.g. discs, cylinders, endless belts}
		2047/688	• • • {Lane boundaries which are compliant}
		2077/000	• • • (Dane boundaries which are compliant)

2047/689	• • • {Lane boundaries which are of such shape that tight arrays of articles are broken up or	47/8861	• • • {Stop in the form of a clamp on one or both sides of the article}
45/60	prevented from forming}	47/8869	• • • { stopping or lifting all articles from a
47/69	• • • the articles being accumulated temporarily {(accumulating articles during transit	17/007/	conveyor}
	B65G 47/261)}	47/8876 47/8884	. • {with at least two stops acting as gates}. • • {Stops acting asynchronously, e.g. one stop
47/70	with precedence controls among incoming article flows		open, next one closed or the opposite}
47/71	the articles being discharged {or distributed} to	47/8892	{Stops acting independently of each other}
7///1	several {distinct separate} conveyors {or to a broader conveyor lane}	47/90	Devices for picking-up and depositing articles or materials
47/715	• • • {to a broader conveyor lane}	47/901	 • {provided with drive systems with rectilinear movements only}
47/72	• transferring materials in bulk from one conveyor	47/902	• • { provided with drive systems incorporating
	to several conveyors, or vice versa	, 02	rotary and rectilinear movements}
47/74	• Feeding, transfer, or discharging devices of	47/904	• • { provided with rotary movements only }
47/76	particular kinds or types	47/905	{Control arrangements}
47/76	Fixed or adjustable ploughs or transverse scrapers (Fixed ploughs or transverse scrapers)	47/907	• • • {with at least two picking-up heads}
47/763	• • {Fixed ploughs or transverse scrapers}	47/908	• • • {with inflatable picking-up means (inflatable
47/766 47/78	 {Adjustable ploughs or transverse scrapers}. Troughs having discharge openings and closures		gripping members on load engaging elements
4///0	{(in air-slides B65G 53/20)}	47/91	for cranes <u>B66C 1/46</u>)} incorporating pneumatic, e.g. suction, grippers
47/80	Turntables carrying articles or materials to	47/91	{with air blasts producing partial vacuum}
	be transferred, e.g. combined with ploughs or	47/912	{provided with drive systems with rectilinear
	scrapers	.,,,12	movements only}
47/82	 Rotary or reciprocating members for direct action on articles or materials, e.g. pushers, rakes, 	47/914	• • • {provided with drive systems incorporating rotary and rectilinear movements}
	shovels {(means for pushing glass articles onto a	47/915	• • • • {provided with drive systems with rotary
	conveyor <u>C03B 9/453</u>)}		movements only}
47/84	Star-shaped wheels or devices having endless travelling halts on shains, the wheels on devices.	47/917	• • • {control arrangements}
	travelling belts or chains, the wheels or devices being equipped with article-engaging elements	47/918	• • • { with at least two picking-up heads }
47/841	Oevices having endless travelling belts	47/92	• • • incorporating electrostatic or magnetic grippers
47/041	or chains equipped with article-engaging elements}	47/94	 Devices for flexing or tilting travelling structures; Throw-off carriages
47/842	• • • {the article-engaging elements being	47/945	• • • {tilting endless surfaces, e.g. belts}
47/042	grippers}	47/95	adapted for longitudinal delivery
47/843	• • • {the article-engaging elements being suction or magnetic means}	47/96	• • • Devices for tilting links or platform {(releasing load-carriers <u>B65G 47/38</u>)}
47/844	{the article-engaging elements being pushers transversally movable on the supporting	47/962	• • • • {tilting about an axis substantially parallel to the conveying direction}
	surface, e.g. pusher-shoes}	47/965	• • • • {tilting about a sided-axis, i.e. the axis is
47/845	{the article engaging elements being pushers		not located near the center-line of the load-
	moving in parallel and independently from	47/077	carrier}
	the supporting conveyor}	47/967	 {tilting about an axis perpendicular to the conveying direction}
47/846	• • • {Star-shaped wheels or wheels equipped with		
47/847	article-engaging elements } {the article-engaging elements being	49/00	Conveying systems characterised by their
47/047	grippers}		application for specified purposes not otherwise provided for
47/848	• • • {the article-engaging elements being suction	49/02	 for conveying workpieces through baths of liquid
	or magnetic means}	49/025	• • {conveyor feeding and discharging means}
47/88	• • Separating or stopping elements, e.g. fingers	49/04	the workpieces being immersed and withdrawn
47/0007	(attached to star-shaped wheels <u>B65G 47/84</u>)		by movement in a vertical direction
47/8807 47/8815	 {with one stop} {Reciprocating stop, moving up or down in	49/0404	• • • {specially adapted for very long workpieces,
47/8813	the path of the article}	40/0400	e.g. chains, cables or belts}
47/8823	• • • {Pivoting stop, swinging in or out of the path	49/0409	 . (specially adapted for workpieces of definite length)
	of the article}	49/0413	• • • {arrangements for conveyance through the
47/883	• • • {Fixed stop}	.,,0113	bath}
47/8838	• • • • { with a linearly movable pusher element	49/0418	{chain or belt conveyors}
,=	which lifts or releases the article}	49/0422	· · · · {screws}
47/8846	{ with a pivoting pusher element which	49/0427	• • • • {jigging conveyors}
17/0052	lifts or releases the article}	49/0431	• • • • {reciprocating conveying means}
47/8853	• • • • { with conveyors, e.g. pivoting or rotating, to transfer the article}	49/0436	• • • {arrangements for conveyance from bath to
	to danielo die dielej		bath}

Common features or details of, or auxiliary devices applicable to, conveyors of different kinds or types; Feeding or...

ceams or			
49/044	• • • • {along a continuous circuit}	49/068	• • • {Stacking or destacking devices; Means for
49/0445	{the circuit being movable vertically as		preventing damage to stacked sheets, e.g.
1,57,01.10	a whole}		spaces (stacking in general <u>B65G 57/00</u> ;
49/045	• • • • { the circuit being fixed }		destacking in general <u>B65G 59/00</u> ; spacer
49/0454	{by means of containers -or		sheets in general <u>B65H</u>)}
47/0454	workpieces- carriers (containers or	49/069	• • • • {Means for avoiding damage to stacked
	carriers as such see C25D 17/00)}		plate glass, e.g. by interposing paper or
49/0459	• • • • • • • {movement in a vertical direction is		powder spacers in the stack (maculation per
49/0439	caused by self-contained means}		se B65H 39/00)}
40/0462	• • • • • • • • {movement in a vertical direction is	49/07	• • for semiconductor wafers {Not used, see
49/0463	caused by lifting means or fixed or		H01L 21/677 (specially adapted for conveying
	adjustable guiding means located at		of semiconductor wafers during manufacture or
	the bath area}		treatment of semiconductor or electric solid state
40/0469			devices or components <u>H01L 21/677</u>)
49/0468	• • • • • { without container or workpieces	49/08	for ceramic mouldings
40/0472	carriers}	49/085	• • • {for loading or unloading racks or similar
49/0472	{along a non continuous circuit}	.57,002	frames; loading racks therefor}
49/0477	{ with lifting means for circuit parts}		rames, roading racks therefor
49/0481	• • • • • • { with lifting means locating at the	Non-mechan	nical conveying through pipes or tubes (pipe-line
	bath area}		D); Floating in troughs
49/0486	• • • • • • • {provided with rotating or pivoting	-	
	arms}	51/00	Conveying articles through pipes or tubes by fluid
49/049	• • • • • • • {provided with vertical guiding		flow or pressure; Conveying articles over a flat
	means}		surface, e.g. the base of a trough, by jets located in
49/0495	• • • • {conveying by flows of fluids}		the surface
49/05	 for fragile or damageable materials or articles 	51/01	• Hydraulic transport of articles (<u>B65G 51/04</u> takes
49/06	for fragile sheets, e.g. glass		precedence; water roundabouts A63G 3/00)
	NOTE	51/02	 Directly conveying the articles, e.g. slips, sheets,
			stockings, containers or workpieces, by flowing
	In group <u>B65G 49/06</u> and subgroups it		gases
	is desirable to add indexing codes for	51/025	{Conveying ammunition through pipes}
	specific aspects of conveying systems. The	51/03	 over a flat surface or in troughs
	indexing codes are chosen from groups	51/035	• • • {for suspended articles, e.g. bottles}
	<u>B65G 2249/00</u> - <u>B65G 2249/045</u>	51/04	 Conveying the articles in carriers having a cross-
40/061	(I :fx:: f		section approximating that of the pipe or tube; Tube
49/061	{Lifting, gripping, or carrying means, for		mail systems
	one or more sheets forming independent means of transport, e.g. suction cups, transport	51/06	Despatch carriers for tube mail
	frames (suction means as load-engaging	51/08	Controlling or conditioning the operating medium
	elements attached to the lifting or lowering	51/10	at section junctions of pneumatic systems
	gear of cranes <u>B66C 1/02</u> ; suction cups for	51/12	Pneumatic gates
	attaching purposes F16B 47/00; suction cups	51/14	Pneumatic sluices
	on gripping heads <u>B25J 15/0616</u> ; suction cups	51/14	• • • varying, e.g. starting or stopping, gas pressure
	in general <u>B65G 47/91</u> ; suction cups combined	31/10	or flow
	with cutting means on vertical conveyors	5 1/10	
	C03B 33/00 - C03B 33/10; devices for turning	51/18	. Adaptations of pipes or tubes; Pipe or tube joints
	sheets <u>B65G 49/067</u> ; suspending devices	51/20	. Braking arrangements
	B65G 49/066)}	51/22	Arrangements for stopping the carriers en route
49/062	• • {Easels, stands or shelves, e.g. castor-shelves,		in order to control carrier sequence; Blocking or
15/1002	supporting means on vehicles; (vehicles		separating devices
	adapted to carry glass sheets <u>B60P 3/002</u> ;	51/24	Switches
	storing articles <u>B65G 1/00</u> or <u>A47B 53/02</u> ;	51/26	• Stations
	packaging for glass sheets B65D 85/48)}	51/28	for despatch
49/063	{Transporting devices for sheet glass}	51/30	for delivery
49/064	{in a horizontal position (B65G 49/066 takes	51/32	for despatch, delivery, and transit
42/004	precedence)}	51/34	Two-way operation
49/065	• • • • { supported partially or completely on fluid	51/36	Other devices for indicating or controlling
T//UUJ	cushions, e.g. a gas cushion (in general		movements of carriers, e.g. for supervising
	B65G 51/00)}		individual tube sections, for counting carriers, for
49/066	• • • {being suspended; Suspending devices, e.g.		reporting jams or other operating difficulties
47/000	clamps, supporting tongs}	51/38	Contact devices on interior of tubes for
40/067			detecting passage of carriers
49/067	{Sheet handling, means, e.g. manipulators,	51/40	Automatically distributing the carriers to
	devices for turning or tilting sheet glass		desired stations
	(suction cups <u>B65G 49/061</u> ; combined with vertical conveyors <u>C03B 33/00</u> - <u>C03B 33/10</u> ;	51/42	according to indications on carriers
	stacking and destacking <u>B65G 49/068</u>)}	- · · -	<u> </u>
	bucking and desucking <u>5050 47/000</u>]]		

51/44	without mechanical contact between carriers and controllers	53/4683 { with a reciprocating mover acting on material }	irectly
51/46	according to separate signal systems	53/4691 { of air-lock type, i.e. at least two val	ves
53/00	Conveying materials in bulk through troughs,	opening asynchronously} 53/48 Screws or like rotary conveyors	
	pipes or tubes by floating the materials or by flow	53/48 Screws or like rotary conveyors53/50 Pneumatic devices (incorporated in no	zzlos
	of gas, liquid or foam	B65G 53/42)	zzies
53/02	 Floating material troughs 	53/52 . Adaptations of pipes or tubes	
53/04	 Conveying materials in bulk pneumatically through 	53/52 • • • • Adaptations of pipes of tubes 53/521 • • • • {means for preventing the accumulation}	n or for
	pipes or tubes; Air slides	removal of deposits (preventing accum	
53/06	Gas pressure systems operating without	in pipes in general F16L 55/24)}	uiation
	fluidisation of the materials	53/523 {Wear protection}	
53/08	• • • with mechanical injection of the materials, e.g.	53/525 {for conveyance in plug-form}	
	by screw	53/526 • • • {with means for special treatment to fa	cilitate
53/10	with pneumatic injection of the materials by the	transport}	CIIII
	propelling gas	53/528 {Flux combining or dividing arrangem	ents
53/12	• • • the gas flow acting directly on the materials	(<u>B65G 53/56</u> takes precedence)}	
50/14	in a reservoir	53/54 Flexible pipes or tubes	
53/14	• • • the gas flow inducing feed of the materials	53/56 Switches	
52/16	by suction effect	53/58 • Devices for accelerating or decelerating f	low
53/16	 Gas pressure systems operating with fluidisation of the materials 	of the materials; Use of pressure generate	
<i>52/</i> 10		(controlling pressure of propelling gas	
53/18	through a porous wall	<u>B65G 53/66</u>)	
53/20	of an air slide, e.g. a trough	53/60 . Devices for separating the materials from	
53/22	• • • the systems comprising a reservoir, e.g. a bunker	propellant gas	
53/24		53/62 using liquid	
53/24	Gas suction systemsoperating with fluidisation of the materials	53/64 in discrete amounts	
53/28	Systems utilising a combination of gas pressure	53/66 Use of indicator or control devices, e.g. f	or
33/28	and suction (inducing feed of the materials by	controlling gas pressure, for controlling	
	suction in gas pressure systems <u>B65G 53/14</u>)	proportions of material and gas, for indic	
53/30	Conveying materials in bulk through pipes or tubes	preventing jamming of material {(contro	
33/30		flow of coal firing systems C21B 5/003)	
	by liquid pressure		
53/32	by liquid pressure Conveying concrete, e.g. for distributing same at		rovided
53/32	• Conveying concrete, e.g. for distributing same at	54/00 Non-mechanical conveyors not otherwise p	rovided
53/32	• Conveying concrete, e.g. for distributing same at building sites (mixing concrete on or by conveyors	54/00 Non-mechanical conveyors not otherwise p for	rovided
53/32 53/34	• Conveying concrete, e.g. for distributing same at	Non-mechanical conveyors not otherwise p	
	 Conveying concrete, e.g. for distributing same at building sites (mixing concrete on or by conveyors B28C 5/34) 	 Non-mechanical conveyors not otherwise p for electrostatic, electric, or magnetic 	
53/34	 Conveying concrete, e.g. for distributing same at building sites (mixing concrete on or by conveyors B28C 5/34) Details 	 54/00 Non-mechanical conveyors not otherwise p for 54/02 • electrostatic, electric, or magnetic 54/025 • {the load being magnetically coupled with piston-like driver moved within a tube} 	
53/34	 Conveying concrete, e.g. for distributing same at building sites (mixing concrete on or by conveyors B28C 5/34) Details Arrangements of containers (hoppers B65D 3/06; 	 54/00 Non-mechanical conveyors not otherwise p for 54/02 • electrostatic, electric, or magnetic 54/025 • { the load being magnetically coupled win piston-like driver moved within a tube } Stacking or de-stacking; Loading or unloading (by means 	
53/34 53/36	 Conveying concrete, e.g. for distributing same at building sites (mixing concrete on or by conveyors B28C 5/34) Details Arrangements of containers (hoppers B65D 3/06; containers in general B65D) Modification of material containing walls to facilitate fluidisation (hoppers with walls 	54/00 Non-mechanical conveyors not otherwise p for 54/02 • electrostatic, electric, or magnetic 54/025 • { the load being magnetically coupled win piston-like driver moved within a tube} Stacking or de-stacking; Loading or unloading (by means incorporated in, or operatively associated with, conveyors	h a
53/34 53/36	 Conveying concrete, e.g. for distributing same at building sites (mixing concrete on or by conveyors B28C 5/34) Details Arrangements of containers (hoppers B65D 3/06; containers in general B65D) Modification of material containing walls to facilitate fluidisation (hoppers with walls modified for fluidisation of contents B65D 88/72) 	54/00 Non-mechanical conveyors not otherwise p for 54/02 • electrostatic, electric, or magnetic 54/025 • { the load being magnetically coupled win piston-like driver moved within a tube } Stacking or de-stacking; Loading or unloading (by means incorporated in, or operatively associated with, conveyors B65G 47/00; lift trucks B60P; B66F; handling sheet material	h a or flat
53/34 53/36 53/38	 Conveying concrete, e.g. for distributing same at building sites (mixing concrete on or by conveyors B28C 5/34) Details Arrangements of containers (hoppers B65D 3/06; containers in general B65D) Modification of material containing walls to facilitate fluidisation (hoppers with walls 	54/00 Non-mechanical conveyors not otherwise p for 54/02 • electrostatic, electric, or magnetic 54/025 • {the load being magnetically coupled with piston-like driver moved within a tube} Stacking or de-stacking; Loading or unloading (by means incorporated in, or operatively associated with, conveyors B65G 47/00; lift trucks B60P; B66F; handling sheet material articles made therefrom B65H; cranes B66C; loading or unloading or un	h a or flat iding
53/34 53/36 53/38 53/40 53/42	 Conveying concrete, e.g. for distributing same at building sites (mixing concrete on or by conveyors B28C 5/34) Details Arrangements of containers (hoppers B65D 3/06; containers in general B65D) Modification of material containing walls to facilitate fluidisation (hoppers with walls modified for fluidisation of contents B65D 88/72) Feeding or discharging devices Nozzles 	54/00 Non-mechanical conveyors not otherwise p for 54/02 • electrostatic, electric, or magnetic 54/025 • {the load being magnetically coupled with piston-like driver moved within a tube} Stacking or de-stacking; Loading or unloading (by means incorporated in, or operatively associated with, conveyors B65G 47/00; lift trucks B60P; B66F; handling sheet material articles made therefrom B65H; cranes B66C; loading or unloading or un	h a or flat ding ng data
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53/34 53/36 53/38 53/40 53/42 53/44 53/46	 Conveying concrete, e.g. for distributing same at building sites (mixing concrete on or by conveyors B28C 5/34) Details Arrangements of containers (hoppers B65D 3/06; containers in general B65D) Modification of material containing walls to facilitate fluidisation (hoppers with walls modified for fluidisation of contents B65D 88/72) Feeding or discharging devices Nozzles Endless conveyors Gates or sluices, e.g. rotary wheels 	54/00 Non-mechanical conveyors not otherwise p for 54/02 • electrostatic, electric, or magnetic 54/025 • {the load being magnetically coupled win piston-like driver moved within a tube} Stacking or de-stacking; Loading or unloading (by means incorporated in, or operatively associated with, conveyors B65G 47/00; lift trucks B60P; B66F; handling sheet material articles made therefrom B65H; cranes B66C; loading or unlost by soil-shifting or like equipment E02F; stacking or de-stacking record cards in association with machines for marking or sens G06K)	h a or flat ding ng data
53/34 53/36 53/38 53/40 53/42 53/44	 Conveying concrete, e.g. for distributing same at building sites (mixing concrete on or by conveyors B28C 5/34) Details Arrangements of containers (hoppers B65D 3/06; containers in general B65D) Modification of material containing walls to facilitate fluidisation (hoppers with walls modified for fluidisation of contents B65D 88/72) Feeding or discharging devices Nozzles Endless conveyors Gates or sluices, e.g. rotary wheels Turnable elements, e.g. rotary wheels with 	54/00 Non-mechanical conveyors not otherwise p for 54/02 • electrostatic, electric, or magnetic 54/025 • {the load being magnetically coupled win piston-like driver moved within a tube} Stacking or de-stacking; Loading or unloading (by means incorporated in, or operatively associated with, conveyors B65G 47/00; lift trucks B60P; B66F; handling sheet material articles made therefrom B65H; cranes B66C; loading or unloading or like equipment E02F; stacking or de-stacking record cards in association with machines for marking or sense.	h a or flat ding ng data
53/34 53/36 53/38 53/40 53/42 53/44 53/46 53/4608	 Conveying concrete, e.g. for distributing same at building sites (mixing concrete on or by conveyors B28C 5/34) Details Arrangements of containers (hoppers B65D 3/06; containers in general B65D) Modification of material containing walls to facilitate fluidisation (hoppers with walls modified for fluidisation of contents B65D 88/72) Feeding or discharging devices Nozzles Endless conveyors Gates or sluices, e.g. rotary wheels Turnable elements, e.g. rotary wheels with pockets or passages for material} 	54/00 Non-mechanical conveyors not otherwise p for 54/02 • electrostatic, electric, or magnetic 54/025 • {the load being magnetically coupled win piston-like driver moved within a tube} Stacking or de-stacking; Loading or unloading (by means incorporated in, or operatively associated with, conveyors B65G 47/00; lift trucks B60P; B66F; handling sheet material articles made therefrom B65H; cranes B66C; loading or unlost by soil-shifting or like equipment E02F; stacking or de-stacking record cards in association with machines for marking or sens G06K)	or flat ading ng data ing data
53/34 53/36 53/38 53/40 53/42 53/44 53/46 53/4608 53/4616	 Conveying concrete, e.g. for distributing same at building sites (mixing concrete on or by conveyors B28C 5/34) Details Arrangements of containers (hoppers B65D 3/06; containers in general B65D) Modification of material containing walls to facilitate fluidisation (hoppers with walls modified for fluidisation of contents B65D 88/72) Feeding or discharging devices Nozzles Endless conveyors Gates or sluices, e.g. rotary wheels Turnable elements, e.g. rotary wheels with pockets or passages for material} {with axis of turning parallel to flow} 	54/00 Non-mechanical conveyors not otherwise properties for 54/02 electrostatic, electric, or magnetic 54/025 • {the load being magnetically coupled with piston-like driver moved within a tube} Stacking or de-stacking; Loading or unloading (by means incorporated in, or operatively associated with, conveyors B65G 47/00; lift trucks B60P; B66F; handling sheet material articles made therefrom B65H; cranes B66C; loading or unloading by soil-shifting or like equipment E02F; stacking or de-stacking record cards in association with machines for marking or sens G06K) NOTE In groups B65G 57/00 - B65G 61/00, the following term is with the meaning indicated:	or flat ading ng data ing data
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53/34 53/36 53/38 53/40 53/42 53/46 53/4608 53/4616 53/4625	 Conveying concrete, e.g. for distributing same at building sites (mixing concrete on or by conveyors B28C 5/34) Details Arrangements of containers (hoppers B65D 3/06; containers in general B65D) Modification of material containing walls to facilitate fluidisation (hoppers with walls modified for fluidisation of contents B65D 88/72) Feeding or discharging devices Nozzles Endless conveyors Gates or sluices, e.g. rotary wheels Turnable elements, e.g. rotary wheels with pockets or passages for material} {with axis of turning parallel to flow} {with axis of turning perpendicular to flow} 	54/00 Non-mechanical conveyors not otherwise properties for 54/02 electrostatic, electric, or magnetic 54/025 • {the load being magnetically coupled with piston-like driver moved within a tube} Stacking or de-stacking; Loading or unloading (by means incorporated in, or operatively associated with, conveyors B65G 47/00; lift trucks B60P; B66F; handling sheet material articles made therefrom B65H; cranes B66C; loading or unloading by soil-shifting or like equipment E02F; stacking or de-stacking record cards in association with machines for marking or sens G06K) NOTE In groups B65G 57/00 - B65G 61/00, the following term is with the meaning indicated:	or flat ading ng data ing data
53/34 53/36 53/38 53/40 53/42 53/44 53/46 53/4608 53/4616	 Conveying concrete, e.g. for distributing same at building sites (mixing concrete on or by conveyors B28C 5/34) Details Arrangements of containers (hoppers B65D 3/06; containers in general B65D) Modification of material containing walls to facilitate fluidisation (hoppers with walls modified for fluidisation of contents B65D 88/72) Feeding or discharging devices Nozzles Endless conveyors Gates or sluices, e.g. rotary wheels Turnable elements, e.g. rotary wheels with pockets or passages for material} {with axis of turning parallel to flow} {with axis of turning perpendicular to flow} {the element having pockets, rotated 	54/00 Non-mechanical conveyors not otherwise properties for 54/02 electrostatic, electric, or magnetic 54/025 • {the load being magnetically coupled with piston-like driver moved within a tube} Stacking or de-stacking; Loading or unloading (by means incorporated in, or operatively associated with, conveyors B65G 47/00; lift trucks B60P; B66F; handling sheet material articles made therefrom B65H; cranes B66C; loading or unloading or like equipment E02F; stacking or de-stacking record cards in association with machines for marking or sensing G06K) NOTE In groups B65G 57/00 - B65G 61/00, the following term is with the meaning indicated: • "stacking" means disposing articles individually or in large one above each other	or flat ading ng data ing data
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53/34 53/36 53/38 53/40 53/42 53/44 53/46 53/4608 53/4616 53/4625 53/4633	 Conveying concrete, e.g. for distributing same at building sites (mixing concrete on or by conveyors B28C 5/34) Details Arrangements of containers (hoppers B65D 3/06; containers in general B65D) Modification of material containing walls to facilitate fluidisation (hoppers with walls modified for fluidisation of contents B65D 88/72) Feeding or discharging devices Nozzles Endless conveyors Gates or sluices, e.g. rotary wheels {Turnable elements, e.g. rotary wheels with pockets or passages for material} {with axis of turning parallel to flow} {with axis of turning perpendicular to flow} {the element having pockets, rotated from charging position to discharging position, i.e. discrete flow} 	54/00 Non-mechanical conveyors not otherwise properties for 54/02 • electrostatic, electric, or magnetic 54/025 • {the load being magnetically coupled with piston-like driver moved within a tube} Stacking or de-stacking; Loading or unloading (by means incorporated in, or operatively associated with, conveyors B65G 47/00; lift trucks B60P; B66F; handling sheet material articles made therefrom B65H; cranes B66C; loading or unloading by soil-shifting or like equipment E02F; stacking or de-stacking record cards in association with machines for marking or sens G06K) NOTE In groups B65G 57/00 - B65G 61/00, the following term is with the meaning indicated: • "stacking" means disposing articles individually or in land one above each other 57/00 Stacking of articles (B65G 60/00) takes precedence; feeding, piling or stacking sheets	or flat ading ag data ing data sused byers
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53/34 53/36 53/38 53/40 53/42 53/44 53/46 53/4608 53/4616 53/4625 53/4633	 Conveying concrete, e.g. for distributing same at building sites (mixing concrete on or by conveyors B28C 5/34) Details Arrangements of containers (hoppers B65D 3/06; containers in general B65D) Modification of material containing walls to facilitate fluidisation (hoppers with walls modified for fluidisation of contents B65D 88/72) Feeding or discharging devices Nozzles Endless conveyors Gates or sluices, e.g. rotary wheels Turnable elements, e.g. rotary wheels with pockets or passages for material} (with axis of turning parallel to flow) (with axis of turning perpendicular to flow) (the element having pockets, rotated from charging position to discharging position, i.e. discrete flow) (with means for clearing out the pockets) 	54/00 Non-mechanical conveyors not otherwise properties for 54/02 electrostatic, electric, or magnetic 54/025 • {the load being magnetically coupled with piston-like driver moved within a tube} Stacking or de-stacking; Loading or unloading (by means incorporated in, or operatively associated with, conveyors B65G 47/00; lift trucks B60P; B66F; handling sheet material articles made therefrom B65H; cranes B66C; loading or unloading or unloading or like equipment E02F; stacking or de-stacking record cards in association with machines for marking or sense G06K) NOTE In groups B65G 57/00 - B65G 61/00, the following term is with the meaning indicated: • "stacking" means disposing articles individually or in large one above each other 57/00 Stacking of articles (B65G 60/00) takes precedence; feeding, piling or stacking sheets 57/005 • {by using insertions or spacers between the layers}	or flat ading ag data ing data sused byers
53/34 53/36 53/38 53/40 53/42 53/44 53/46 53/4608 53/4616 53/4625 53/4633 53/4641 53/465	 Conveying concrete, e.g. for distributing same at building sites (mixing concrete on or by conveyors B28C 5/34) Details Arrangements of containers (hoppers B65D 3/06; containers in general B65D) Modification of material containing walls to facilitate fluidisation (hoppers with walls modified for fluidisation of contents B65D 88/72) Feeding or discharging devices Nozzles Endless conveyors Gates or sluices, e.g. rotary wheels Turnable elements, e.g. rotary wheels with pockets or passages for material} {with axis of turning parallel to flow} {with axis of turning pockets, rotated from charging position to discharging position, i.e. discrete flow} {with means for clearing out the pockets} {with a closable outlet} 	54/00 Non-mechanical conveyors not otherwise p for 54/02 • electrostatic, electric, or magnetic 54/025 • {the load being magnetically coupled win piston-like driver moved within a tube} Stacking or de-stacking; Loading or unloading (by means incorporated in, or operatively associated with, conveyors B65G 47/00; lift trucks B60P; B66F; handling sheet material articles made therefrom B65H; cranes B66C; loading or unlooby soil-shifting or like equipment E02F; stacking or de-stacking record cards in association with machines for marking or sens G06K) NOTE In groups B65G 57/00 - B65G 61/00, the following term is with the meaning indicated: • "stacking" means disposing articles individually or in latione above each other 57/00 Stacking of articles (B65G 60/00) takes precedence; feeding, piling or stacking sheets 57/005 • {by using insertions or spacers between the layers} 57/02 • by adding to the top of the stack	or flat ading ag data ing data sused byers
53/34 53/36 53/38 53/40 53/42 53/44 53/46 53/4608 53/4616 53/4625 53/4633	 Conveying concrete, e.g. for distributing same at building sites (mixing concrete on or by conveyors B28C 5/34) Details Arrangements of containers (hoppers B65D 3/06; containers in general B65D) Modification of material containing walls to facilitate fluidisation (hoppers with walls modified for fluidisation of contents B65D 88/72) Feeding or discharging devices Nozzles Endless conveyors Gates or sluices, e.g. rotary wheels {Turnable elements, e.g. rotary wheels with pockets or passages for material} {with axis of turning parallel to flow} {with axis of turning perpendicular to flow} {the element having pockets, rotated from charging position to discharging position, i.e. discrete flow} {with means for clearing out the pockets} {with a closable outlet} {the element having passages 	54/00 Non-mechanical conveyors not otherwise p for 54/02 • electrostatic, electric, or magnetic 54/025 • {the load being magnetically coupled win piston-like driver moved within a tube} Stacking or de-stacking; Loading or unloading (by means incorporated in, or operatively associated with, conveyors B65G 47/00; lift trucks B60P; B66F; handling sheet material articles made therefrom B65H; cranes B66C; loading or unlooby soil-shifting or like equipment E02F; stacking or de-stacking record cards in association with machines for marking or sens G06K) NOTE In groups B65G 57/00 - B65G 61/00, the following term is with the meaning indicated: • "stacking" means disposing articles individually or in latione above each other 57/00 Stacking of articles (B65G 60/00) takes precedence; feeding, piling or stacking sheets 57/005 • {by using insertions or spacers between the layers} 57/02 • by adding to the top of the stack 57/03 • from above	or flat ding ng data ing data sused syers B65H) stacked
53/34 53/36 53/38 53/40 53/42 53/44 53/46 53/4608 53/4616 53/4625 53/4633 53/4641 53/465	 Conveying concrete, e.g. for distributing same at building sites (mixing concrete on or by conveyors B28C 5/34) Details Arrangements of containers (hoppers B65D 3/06; containers in general B65D) Modification of material containing walls to facilitate fluidisation (hoppers with walls modified for fluidisation of contents B65D 88/72) Feeding or discharging devices Nozzles Endless conveyors Gates or sluices, e.g. rotary wheels (Turnable elements, e.g. rotary wheels with pockets or passages for material) (with axis of turning parallel to flow) (with axis of turning perpendicular to flow) (the element having pockets, rotated from charging position to discharging position, i.e. discrete flow) (with means for clearing out the pockets) (with a closable outlet) (the element having passages simultaneously connectable to both inlet 	54/00 Non-mechanical conveyors not otherwise properties for 54/02 • electrostatic, electric, or magnetic 54/025 • {the load being magnetically coupled with piston-like driver moved within a tube} Stacking or de-stacking; Loading or unloading (by means incorporated in, or operatively associated with, conveyors B65G 47/00; lift trucks B60P; B66F; handling sheet material articles made therefrom B65H; cranes B66C; loading or unloading by soil-shifting or like equipment E02F; stacking or de-stacking record cards in association with machines for marking or sens G06K) NOTE In groups B65G 57/00 - B65G 61/00, the following term is with the meaning indicated: • "stacking" means disposing articles individually or in large one above each other 57/00 Stacking of articles (B65G 60/00) takes precedence; feeding, piling or stacking sheets 57/005 • {by using insertions or spacers between the layers} 57/02 • by adding to the top of the stack 57/03 • from above 57/035 • {with a stepwise downward movement	or flat ding ng data ing data sused syers B65H) stacked
53/34 53/36 53/38 53/40 53/42 53/46 53/4608 53/4616 53/4625 53/4633 53/4641 53/465 53/4658	 Conveying concrete, e.g. for distributing same at building sites (mixing concrete on or by conveyors B28C 5/34) Details Arrangements of containers (hoppers B65D 3/06; containers in general B65D) Modification of material containing walls to facilitate fluidisation (hoppers with walls modified for fluidisation of contents B65D 88/72) Feeding or discharging devices Nozzles Endless conveyors Gates or sluices, e.g. rotary wheels Turnable elements, e.g. rotary wheels with pockets or passages for material} {with axis of turning parallel to flow} {with axis of turning perpendicular to flow} {the element having pockets, rotated from charging position to discharging position, i.e. discrete flow} {with means for clearing out the pockets} {with a closable outlet} {the element having passages simultaneously connectable to both inlet and outlet ports} 	54/00 Non-mechanical conveyors not otherwise properties for 54/02 • electrostatic, electric, or magnetic 54/025 • {the load being magnetically coupled with piston-like driver moved within a tube} Stacking or de-stacking; Loading or unloading (by means incorporated in, or operatively associated with, conveyors B65G 47/00; lift trucks B60P; B66F; handling sheet material articles made therefrom B65H; cranes B66C; loading or unloading by soil-shifting or like equipment E02F; stacking or de-stacking record cards in association with machines for marking or sens G06K) NOTE In groups B65G 57/00 - B65G 61/00, the following term is with the meaning indicated: • "stacking" means disposing articles individually or in large one above each other 57/00 Stacking of articles (B65G 60/00) takes precedence; feeding, piling or stacking sheets 57/005 • {by using insertions or spacers between the layers} 57/02 • by adding to the top of the stack 57/03 • from above 57/035 • {with a stepwise downward movement stack}	or flat ding ng data ing data sused syers B65H) stacked
53/34 53/36 53/38 53/40 53/42 53/44 53/46 53/4608 53/4616 53/4625 53/4633 53/4641 53/465	 Conveying concrete, e.g. for distributing same at building sites (mixing concrete on or by conveyors B28C 5/34) Details Arrangements of containers (hoppers B65D 3/06; containers in general B65D) Modification of material containing walls to facilitate fluidisation (hoppers with walls modified for fluidisation of contents B65D 88/72) Feeding or discharging devices Nozzles Endless conveyors Gates or sluices, e.g. rotary wheels Turnable elements, e.g. rotary wheels with pockets or passages for material} {with axis of turning parallel to flow} {with axis of turning perpendicular to flow} {the element having pockets, rotated from charging position to discharging position, i.e. discrete flow} {with means for clearing out the pockets} {with a closable outlet} {the element having passages simultaneously connectable to both inlet and outlet ports} {with axis of turning neither parallel nor 	54/00 Non-mechanical conveyors not otherwise properties for 54/02 • electrostatic, electric, or magnetic 54/025 • {the load being magnetically coupled with piston-like driver moved within a tube} Stacking or de-stacking; Loading or unloading (by means incorporated in, or operatively associated with, conveyors B65G 47/00; lift trucks B60P; B66F; handling sheet material articles made therefrom B65H; cranes B66C; loading or unload by soil-shifting or like equipment E02F; stacking or de-stacking record cards in association with machines for marking or sense G06K) NOTE In groups B65G 57/00 - B65G 61/00, the following term is with the meaning indicated: • "stacking" means disposing articles individually or in large one above each other 57/00 Stacking of articles (B65G 60/00) takes precedence; feeding, piling or stacking sheets 57/02 • by using insertions or spacers between the layers} 57/03 • from above 57/035 • {with a stepwise downward movement stack} 57/04 • • by suction or magnetic devices	or flat ding ng data ing data sused syers B65H) stacked
53/34 53/36 53/38 53/40 53/42 53/46 53/4608 53/4616 53/4625 53/4633 53/4641 53/465 53/465 53/4658	 Conveying concrete, e.g. for distributing same at building sites (mixing concrete on or by conveyors B28C 5/34) Details Arrangements of containers (hoppers B65D 3/06; containers in general B65D) Modification of material containing walls to facilitate fluidisation (hoppers with walls modified for fluidisation of contents B65D 88/72) Feeding or discharging devices Nozzles Endless conveyors Gates or sluices, e.g. rotary wheels Turnable elements, e.g. rotary wheels with pockets or passages for material} (with axis of turning parallel to flow) (with axis of turning perpendicular to flow) (with axis of turning pockets, rotated from charging position to discharging position, i.e. discrete flow) (with means for clearing out the pockets) (with a closable outlet) (the element having passages simultaneously connectable to both inlet and outlet ports) (with axis of turning neither parallel nor perpendicular to flow, i.e. mixed flow) 	54/00 Non-mechanical conveyors not otherwise p for 54/02 . electrostatic, electric, or magnetic 54/025 . {the load being magnetically coupled win piston-like driver moved within a tube} Stacking or de-stacking; Loading or unloading (by means incorporated in, or operatively associated with, conveyors B65G 47/00; lift trucks B60P; B66F; handling sheet material articles made therefrom B65H; cranes B66C; loading or unlooby soil-shifting or like equipment E02F; stacking or de-stacking record cards in association with machines for marking or sens G06K) NOTE In groups B65G 57/00 - B65G 61/00, the following term is with the meaning indicated: • "stacking" means disposing articles individually or in large one above each other 57/00 Stacking of articles (B65G 60/00) takes precedence; feeding, piling or stacking sheets 57/005 . {by using insertions or spacers between the layers} 57/02 . by adding to the top of the stack from above 57/035 {with a stepwise downward movement stack} 57/04 by suction or magnetic devices 57/06 Gates for releasing articles	or flat ading ng data ing data sused ayers B65H) stacked
53/34 53/36 53/38 53/40 53/42 53/46 53/4608 53/4616 53/4625 53/4633 53/4641 53/465 53/4658	 Conveying concrete, e.g. for distributing same at building sites (mixing concrete on or by conveyors B28C 5/34) Details Arrangements of containers (hoppers B65D 3/06; containers in general B65D) Modification of material containing walls to facilitate fluidisation (hoppers with walls modified for fluidisation of contents B65D 88/72) Feeding or discharging devices Nozzles Endless conveyors Gates or sluices, e.g. rotary wheels Turnable elements, e.g. rotary wheels with pockets or passages for material} {with axis of turning parallel to flow} {with axis of turning perpendicular to flow} {the element having pockets, rotated from charging position to discharging position, i.e. discrete flow} {with means for clearing out the pockets} {with a closable outlet} {the element having passages simultaneously connectable to both inlet and outlet ports} {with axis of turning neither parallel nor 	54/00 Non-mechanical conveyors not otherwise properties for 54/02 • electrostatic, electric, or magnetic 54/025 • {the load being magnetically coupled with piston-like driver moved within a tube} Stacking or de-stacking; Loading or unloading (by means incorporated in, or operatively associated with, conveyors B65G 47/00; lift trucks B60P; B66F; handling sheet material articles made therefrom B65H; cranes B66C; loading or unload by soil-shifting or like equipment E02F; stacking or de-stacking record cards in association with machines for marking or sense G06K) NOTE In groups B65G 57/00 - B65G 61/00, the following term is with the meaning indicated: • "stacking" means disposing articles individually or in large one above each other 57/00 Stacking of articles (B65G 60/00) takes precedence; feeding, piling or stacking sheets 57/02 • by using insertions or spacers between the layers} 57/03 • from above 57/035 • {with a stepwise downward movement stack} 57/04 • • by suction or magnetic devices	or flat ading ng data ing data sused ayers B65H) stacked

57/00	C 1 :1	5 0/10	D (1) (1 (1)
57/09 57/10	from alongsideby devices, e.g. reciprocating, acting directly	59/10 59/101	De-stacking nested articles• {by means of oscillating escapement-like}
37/10	on articles for horizontal transport to the top of	39/101	mechanisms}
	stack	59/102	• • • {the axis of oscillation being substantially
57/11	the articles being stacked by direct action of the		parallel to the axis of the stack}
	feeding conveyor	59/103	• • • {comprising lifting or gripping means}
57/112	the conveyor being adjustable in height	59/105	• • {by means of reciprocating escapement-like
57/14	• • • the articles being transferred from carriers		mechanisms}
	moving in an endless path adjacent to the	59/106	• • • {comprising lifting or gripping means}
	stacks	59/107	• • {by means of rotary devices or endless elements}
57/16	Stacking of articles of particular shape	59/108	• • • {the axis of rotation being substantially parallel
57/165	{nested}		to the axis of the stack}
57/18	• • elongated, e.g. sticks, rods, bars	59/12	 characterised by de-stacking during transit
57/183	{Angle irons}	60/00	Simultaneously or alternatively stacking and de-
57/186	• • • • {Cylindrical articles, e.g. tubes, rods, etc.}	00,00	stacking of articles
57/20	three-dimensional, e.g. cubiform, cylindrical		_
57/22	in layers each of predetermined arrangement	61/00	Use of pick-up or transfer devices or of
57/24	the layers being transferred as a whole,		manipulators for stacking or de-stacking articles
	e.g. on pallets		not otherwise provided for
57/245	• • • • • {with a stepwise downward movement	63/00	Transferring or trans-shipping at storage areas,
	of the stack}		railway yards or harbours {or in opening mining
57/26	the arrangement providing for spaces		cuts}; Marshalling yard installations
55/20	between the articles	63/002	• {for articles}
57/28	• by assembling the articles and tilting the assembled	63/004	• • {for containers}
57/20	articles to a stacked position	63/006	• • • {using slanted guides}
57/30	• by adding to the bottom of the stack	63/008	• {for bulk material}
57/301	 {by means of reciprocatory or oscillatory lifting and holding or gripping devices} 	63/02	 with essentially horizontal transit otherwise than by
57/302	 {added articles being lifted to substantially		bridge
37/302	stationary grippers or holders}	63/022	• • {for articles}
57/303	• • • { the stack being lowered by mobile grippers or	63/025	• • • {for containers}
31/303	holders onto added articles}	63/027	• • {for bulk material}
57/305	• • {by means of rotary devices or endless elements}	63/04	 with essentially-horizontal transit by bridges
57/306	• • {the rotary devices being wheels}		equipped with conveyors
57/307	{the rotary devices being screws}	63/042	• • {for articles}
57/308	• • { the foldary devices being serews} • • • { by means of endless elements }	63/045	• • • {for containers}
57/32	 characterised by stacking during transit 	63/047	• • {for bulk material}
	• Characterised by Stacking during during	63/06	 with essentially-vertical transit
59/00	De-stacking of articles (<u>B65G 60/00</u> takes	63/062	• • {for articles}
	precedence)	63/065	• • • {for containers}
59/005	• {by using insertions or spacers between the stacked	63/067	• • {for bulk material}
	layers}	65/00	Loading or unloading (of vehicles <u>B65G 67/00</u>)
59/02	• De-stacking from the top of the stack		• {Control arrangements}
59/023	• • {by means insertable between the stacked articles	65/005	 Control arrangements; Loading or unloading machines comprising
#0.10 .	or layers}	65/02	essentially a conveyor for moving the loads
59/026	• • {with a stepwise upward movement of the stack}		associated with a device for picking-up the loads
59/04	by suction or magnetic devices	65/04	with pick-up shovels (constructions of shovels
59/045	• • • {with a stepwise upward movement of the	03/01	E02F)
50/0 <i>6</i>	stack}	65/06	with endless scraping or elevating pick-up
59/06	• De-stacking from the bottom of the stack		conveyors
59/061	• • {articles being separated substantially along the	65/08	with reciprocating pick-up conveyors
50/062	axis of the stack}	65/10	Raking or scraping devices
59/062	• • • {by means of reciprocating or oscillating escapement-like mechanisms}	65/12	operations at positions off-set from the
59/063	• • • {comprising lifting means}		conveyor centreline
59/065	 {comprising fitting fitt	65/14	with jigging pick-up conveyors, e.g. duck-bills
57/003	to the lower most article or <u>vice versa</u> }	65/16	with rotary pick-up conveyors
59/066	• • • {by means of rotary devices or endless	65/18	Discs
57/000	elements}	65/20	Paddle wheels
59/067	• • {articles being separated substantially	65/22	Screws
27,001	perpendicularly to the axis of the stack}	65/23	 Devices for tilting and emptying of containers
59/068	• • • {by means of endless elements}	65/24	for manual tilting of barrels or casks
59/08	 De-stacking after preliminary tilting of the stack 		5
	Same Francisco American		

65/28	 Piling or unpiling loose materials in bulk, e.g. coal, manure, timber, not otherwise provided for (by soil- 	67/00	Loading or unloading vehicles (by means incorporated in the vehicles <u>B60-B64</u> , e.g.,
65/30	shifting or like equipment <u>E02F</u>) Methods or devices for filling or emptying bunkers,		B60P 1/00, B61D 9/00, B63B 27/00, B64D 9/00; ground or aircraft-carrier-deck installations for
03/30	hoppers, tanks, or like containers, of interest apart		aircraft B64F 1/32)
	from their use in particular chemical or physical	67/02	Loading or unloading land vehicles
	processes or their application in particular machines, e.g. not covered by a single other subclass (devices	67/04	• Loading land vehicles {(loading or unloading boats to or from land vehicles B60P 3/10)}
	for tilting and emptying containers <u>B65G 65/23</u> ; such containers having means facilitating filling or	67/06	Feeding articles or materials from bunkers or tunnels
	emptying <u>B65D 88/54</u>)	67/08	using endless conveyors
	NOTE	67/10	using conveyors covering the whole length of vehicle trains
	Methods or devices for filling bunkers, hoppers,	67/12	Loading elongated articles, e.g. rails, logs
	or containers are only classified in group <u>B65G 65/30</u> if they are of general application	67/14	Loading hardened bricks, briquettes, or the like
	apart from their use in particular processes or their application in particular machines or if they	67/16	• • Loading coke-oven products (discharging coke- ovens C10B 33/00)
	are not covered by a single other subclass	67/18	Refuelling locomotives with solid fuels
		67/20	Loading covered vehicles
65/32	Filling devices	67/22	Loading moving vehicles
65/34	Emptying devices (conveyor	67/24	Unloading land vehicles
	construction <u>B65G 15/00</u> - <u>B65G 35/00</u> ; devices	67/26	using rakes or scrapers
65126	similar to vehicle tipplers <u>B65G 67/48</u>)	67/28	External transverse blades attached to
65/36 65/365	Devices for emptying from the top{comprising a vertical passage located inside		endless conveyors
03/303	the container	67/30	• • using transportable tipping apparatus
65/38	Mechanical devices	67/32	• • using fixed tipping installations
65/40	Devices for emptying otherwise than from the top	67/34	• • • Apparatus for tipping wagons or mine cars (inverting wagons <u>B65G 67/48</u>)
65/42	using belt or chain conveyors	67/36	endwise
65/425	{arranged to be movable}	67/38	comprising a turntable
65/44	using reciprocating conveyors, e.g. jigging	67/40	toward one end only
03/44	conveyors	67/42	sideways
65/46 65/463	 using screw conveyors {arranged vertically or substantially 	67/44	• • • • by passing the vehicles over a stretch of transversely-inclined rails
05/405	vertically within the container	67/46	Apparatus for lifting and tilting
	(<u>B65G 65/466</u> takes precedence)}	67/48	Vehicle tipplers
65/466	• • • • {arranged to be movable}	67/50	Rotary vehicle tipplers, i.e. rotating
65/48	• • • using other rotating means, e.g. rotating		through 360 degrees
	pressure sluices in pneumatic systems	67/52	having several decks
	$\{(\underline{B65G \ 53/46} \ takes \ precedence)\}$	67/54	Vehicle-locking means
65/4809	• • • • {rotating about a substantially vertical	67/56	Vehicle and tippler interlocking controls
65/4818	axis} {and having the form of rotating tables	67/60	• Loading or unloading ships (arrangement of ship- based loading or unloading equipment for cargo or
	or pans}	67/603	passengers <u>B63B 27/00</u>)• {using devices specially adapted for articles}
65/4827	• • • • • { with particular surface features, e.g. ribs, roughening }	67/606	 • {using devices specially adapted for bulk material}
65/4836	• • • • • {and moving material over a stationary surface, e.g. sweep arms or wheels}	67/62	using devices influenced by the tide or by the
65/4845	• • • • • • {flexible, e.g. chains, cables, spring arms}	69/00	movements of the ship, e.g. devices on pontoons Auxiliary measures taken, or devices used,
65/4854	• • • • • • {mounted on a carriage, e.g. for movement along slit-like outlets}		in connection with loading or unloading (by means incorporated in, or operatively
65/4863	{by means of eccentric motion}		associated with, conveyors B65G 47/00;
65/4872	• • • • • {through which material passes, e.g. fan-like wheels}		preventing fire <u>A62C 3/00</u> ; in vehicles, see the relevant subclasses, e.g., <u>B60P 1/58</u> , <u>B61D 7/32</u> ,
65/4881	• • • • {rotating about a substantially horizontal		<u>B62D 33/00, B63B 25/00, B64D 9/00</u>)
<i>65/</i> 490	axis}	69/001	• {Buffers for vehicles at loading stations}
65/489	• • • • {in the form of rotating tubular chutes}	69/003	• {Restraining movement of a vehicle at a loading station using means not being part of the vehicle}
		69/005	• • {the means engaging at least one wheel of the vehicle}
		69/006	• {Centring or aligning a vehicle at a loading station using means not being part of the vehicle}

60/000	(5.1.1.)	60 / 0 0 7 6	(0.6)
69/008	• {Dock- or bumper-seals}	69/2876	• • {Safety or protection means, e.g. skirts}
69/02	• Filling storage spaces as completely as possible, e.g.	69/2882	• • • • {operated by detectors or sensors}
60/04	application of vibratorsSpreading out the materials conveyed over the	69/2888	• • • {Vehicle barriers mounted on deck}
69/04	whole surface to be loaded; Trimming heaps of	69/2894	Safety legs
	loose materials	69/30	Non-permanently installed loading ramps, e.g.
69/0408	• • {by relatively moving an endless feeding means		transportable
07/0100	(B65G 69/0458 takes precedence)}		
69/0416	• • {with scraping belts or chains}		
69/0425	• • {with vibrating or shaking means}	2201/00	Indexing codes relating to handling devices, e.g.
69/0433	• • {with screw conveyors}		conveyors, characterised by the type of product or
69/0441	• • { with chutes, deflector means or channels		load being conveyed or handled
	(<u>B65G 69/0458</u> takes precedence)}	2201/02	. Articles
69/045	• • {with scraping devices (B65G 69/0416 takes	2201/0202	Agricultural and processed food products
	precedence)}	2201/0205	Biscuits
69/0458	• • {with rotating means, e.g. tables, arms}	2201/0208	Eggs
69/0466	• • {with throwing devices}	2201/0211	Fruits and vegetables
69/0475	• • {with air jets}		Articles of special size, shape or weigh
69/0483	• • {with electric or magnetic means}	2201/0217	Elongated
69/0491	• • {with a pneumatic feeding conveyor}	2201/022	Flat
69/06	 Fluidising 	2201/0223	Heavy
69/08	 Devices for emptying storage spaces as completely 	2201/0226	Cigarettes
	as possible (devices preventing the formation of	2201/0229	Clothes, clothes hangers
	bridges in large containers <u>B65D 88/64</u>)	2201/0232	Coils, bobbins, rolls
69/10	Obtaining an average product from stored bulk	2201/0235	Containers
	material	2201/0238	Bags
69/12	Sieving bulk materials during loading or unloading	2201/0241	Barrels, drums
69/14	 Pulverising loaded or unloaded materials 	2201/0244	Bottles
69/16	• Preventing pulverisation, deformation, breakage, or	2201/0247	Suspended bottles
	other mechanical damage to the goods or materials	2201/025	Boxes
69/165	• • {using descending or lowering endless	2201/0252	Cans
CO /1.0	conveyors}	2201/0255	Milkcans
69/18	Preventing escape of dust	2201/0258	Trays, totes or bins
69/181	• • {by means of sealed systems}	2201/0261	Puck as article support
69/182	{with aspiration means}	2201/0264	Luggage
69/183	{with co-operating closure members on each of	2201/0267	Pallets
60/195	the parts of a separable transfer channel } {by means of non-sealed systems}	2201/027	Tablets, capsules, pills or the like
69/185		2201/0273	Tires
69/186 69/187	 { with aspiration means } { with non-return closures }		Tubes and pipes
69/188	{ with non-return closures } { with spraying means }	2201/0279	Wheelbarrows
69/20	 Auxiliary treatments, e.g. aerating, heating, 	2201/0282	• • Wooden articles, e.g. logs, trunks or planks
09/20	humidifying, deaerating, cooling, de-watering or	2201/0285	• Postal items, e.g. letters, parcels
	drying, during loading or unloading; Loading or	2201/0288	Signatures, i.e. sections of printed magazines,
	unloading in a fluid medium other than air		papers or books
69/22	Horizontal loading or unloading platforms (as road	2201/0291	. Pig used in pipe conveyors, e.g. a Molch
	or railway equipment <u>B61B 1/00</u> , <u>E01F 1/00</u>)	2201/0294	Vehicle bodies
69/24	having platform level adjusting means	2201/0297	Wafer cassette
69/26	Rotatable platforms	2201/04	. Bulk
69/28	 Loading ramps; Loading docks (as road or railway 	2201/042	Granular material
	equipment <u>B61B 1/00</u> , <u>E01F 1/00</u>)	2201/045	Sand, soil and mineral ore
69/2805	• • {permanently installed on the dock}	2201/047	. Articles manipulated as bulk
69/2811	• • • {pivoting ramps}	2201/06	Articles and bulk
69/2817	• • • { with fluid-operated means }	Storing; Stor	eaga davicas
69/2823	• • • • {extensible by pivoting parts}	Storing, Stor	age devices
69/2829	• • • • {extensible by sliding parts}	2203/00	Indexing code relating to control or detection of
69/2835	• • • { with spring-operated means }		the articles or the load carriers during conveying
69/2841	• • • • {extensible by pivoting parts}	2203/02	Control or detection
69/2847	• • • • {extensible by sliding parts}	2203/0208	relating to the transported articles
69/2852	• • • { with electric motor-operated means }	2203/0216	Codes or marks on the article
69/2858	• • • {with weight counterbalancing means}	2203/0225	Orientation of the article
69/2864	• • {adjustable with respect to the dock}	2203/0233	Position of the article
69/287	• • {Constructional features of deck or surround}	2203/0241	Quantity of articles

2203/025	Speed of the article	2249/02	Controlled or contamination-free environments or
2203/0258	Weight of the article		clean space conditions
2203/0266	• relating to the load carrier(s)	2249/04	Arrangements of vacuum systems or suction cups
2203/0275	Damage on the load carrier	2249/045	Details of suction cups suction cups
2203/0283	Position of the load carrier	2811/00	Indexing codes relating to common features for
2203/0291	Speed of the load carrier	2011/00	more than one conveyor kind or type
2203/04	Detection means	2811/06	Devices controlling the relative position of articles
2203/041	Camera	2811/0605	by arranging articles in groups or arranging
2203/042	Sensors	2011/0002	grouped articles
2203/043	Magnetic	2811/061	Grouping articles in layers
2203/044	Optical		Devices for arranging grouped articles in a
2203/045	Thermic		single lane
2203/046	RFID	2811/0621	_
2203/047	Switches		articles
2203/048	Satellite	2811/0626	Orientation of articles
2205/00	Stopping alaments used in conveyors to stop	2811/0631	by varying the spacing between individual articles
2205/00	Stopping elements used in conveyors to stop articles or arrays of articles	2811/0636	by means of one or several star-shaped wheels
2205/02	where the stop device is adaptable to the size of the	2811/0642	using a fixed stopping element and means to
2203/02	article or array		pass the element
2205/04	where the stop device is not adaptable	2811/0647	$ \bullet $. Changing the direction of movement of articles or
2205/06	Cushioned or damping stop devices, e.g. using		bulk material
2203/00	springs or other mechanical actions	2811/0652	Accessories
		2811/0657	Deflectors
2207/00	Indexing codes relating to constructional details,	2811/0663	Pick-up means
	configuration and additional features of a handling	2811/0668	Magnetic or electrostatic devices
2207/02	device, e.g. Conveyors		Control of conveying operations
2207/02	. Use of adhesive	2811/0678	Determining the path to be followed
2207/04	Advertising elements	2811/0684	• • • by stopping or tilting load-carriers not
2207/06	. Air cushion support of articles		leaving the conveyor path
2207/08	Adjustable and/or adaptable to the article size		Releasing constant material flow
2207/10	Antistatic features Chain min retainers		for permanently occupying the conveyor path
2207/12	Combination of conveyage	2811/09	Driving means for the conveyors
2207/14 2207/16	Combination of conveyors Convertible to another type of conveyor	2811/091	the conveyor type being irrelevant
2207/18	Crossing conveyors	2811/092	a single conveyor having more than one driving
2207/18	Earthquake protection	2011/002	means
2207/20	Heat or fire protection	2811/093	Control means for automatic stop, start or
2207/24	Helical or spiral conveying path	2011/005	warning variation during conveying operations
2207/24	Hygienic features, e.g. easy to sanitize	2811/095 2811/096	Speed variation control means without reversal of the conveying direction
2207/28	Impact protection	2811/090	without reversal of the conveying direction
2207/30	Modular constructions	2811/097	for combined motions
2207/30	Noise prevention features	2811/098	Tor comonied motions
2207/34	Omni-directional rolls	2812/00	Indexing codes relating to the kind or type of
2207/34	Pushing shoes on conveyors		conveyors
2207/38	Pin used as carrier of one article	2812/01	• Conveyors composed of several types of conveyors
2207/40	Safety features of loads, equipment or persons	2812/011	one conveyor being driven by another one
2207/42	Soft elements to prevent damage to articles, e.g.	2812/012	for conveying material successively by a series of
22077 12	bristles, foam		conveyors
2207/44	Spiral conveyor tracks	2812/013	without relative movement between conveyors
2207/46	Tray unloading features	2812/014	with relative movement between conveyors
2207/48	Wear protection or indication features	2812/015	the conveyors being movably linked
	•	2812/016	for conveying material by co-operating units in tandem
2209/00	Indexing codes relating to order picking devices in General	2912/017	
2209/02		2812/017 2812/018	using tilted or side by side conveyor sections between conveyor sections
2209/02	Batch order forming, e.g. several batches simultaneously	2812/018	using two or more elevators
2209/04	Indication location means	2812/019	Belt or chain conveyors
2209/04	Use of order trucks		Common features for belt or chain conveyors
2209/08	Orders with a high and a low volume		Supporting or guiding frames
2209/10	Partial order forming		Transportable conveyor frames
	-		Profiles or beams
2249/00	Aspects relating to conveying systems for the manufacture of fragile sheets	2012/02037	

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2812/02049 with guiding means for displaceable	2812/02514 in longitudinal direction only
conveyor accessories	2812/02524 in transverse direction only
2812/02059 with supporting arrangements for ducts or	2812/02534 the surfaces being an endless belt
cables or shaped as fluid ducts	2812/02544 with bucket profile
2812/02069 Rails	2812/02554 the load-carrying surfaces being
2812/02079 Switches	pivotally attached to the traction means
2812/02089 Driving means	2812/02564 Tipping means
2812/02099 Safety measures in case of driving element breakage	2812/02574 Guiding means to maintain load- carrying surfaces horizontal
2812/02108 Protection means	2812/02584 the load-carrying surfaces resting on the
2812/02118 Gathering means for material falling from the	traction means
conveyor	2812/02594 Reversing means
2812/02128 Belt conveyors	2812/02603 Load-carrying surfaces adapted to
2812/02138 Common features for belt conveyors	be displaced relative to the traction
2812/02148 Driving means for the belts	means
2812/02158 Means preventing dust penetration	2812/02613 the load-carrying surfaces being separated
2812/02168 Belts provided with guiding means, e.g.	from each other, e.g. individual load carriers
rollers	2812/02623 and pivotally mounted
2812/02178 characterised by the material	2812/02633 for bulk material
2812/02188 Metallic belts	2812/02643 Loading or unloading means
2812/02198 Non-metallic belts	2812/02653 for articles
2812/02207 Partially metallic belts	2812/02663 Loading or unloading means
2812/02217 characterised by the configuration	2812/02673 the load-carriers being arranged above,
2812/02227 for vertical conveyance	between or beside the traction means
2812/02237 provided with buckets	2812/02683 and fixed or non-movably linked to the
2812/02247 using belts with bucket profiles	traction means
2812/02257 the load remaining on the belt due to	2812/02693 for vertical or inclined conveyance
centrifugal forces	2812/02702 Details
2812/02267 Conveyors having endless traction elements	2812/02712 Loading or unloading means
2812/02277 Common features for chain conveyors	2812/02722 Frames
2812/02287 Driving means	2812/02732 with guiding means for the
2812/02297 Arrangements for downward conveyance	traction means
2812/02306 Driving drums	2812/02742 Bucket elevators for bulk material
2812/02316 with means for assuring constant linear	2812/02752 Elevators for articles
speed of chains	2812/02762 Load-carriers
2812/02326 Chains, cables or the like	2812/02772 Plates or buckets
2812/02336 Accessories	2812/02782 with upstanding walls
2812/02346 Grippers associated with chain parts	2812/02792 the load-carriers being connected
2812/02356 characterised by the material	pivotally to the traction means
2812/02366 Flexible links	2812/02801 Loading or unloading means
2812/02376 characterised by the configuration	2812/02811 guided at least partially along a
2812/02386 Woven chains	vertical or inclined direction
2812/02396 Links and their attaching means	2812/02821 with guiding means to remain in a
2812/02405 Means preventing dust penetration	load-carrying position
2812/02415 with load-carrying surfaces supported by	2812/02831 the load-carriers resting on the traction
traction means	means
2812/02425 Continuous or uninterrupted load-carrying	2812/02841 Reversing means
surfaces	2812/02851 load-carriers adapted to be displaced
2812/02435 the surfaces being below the traction	relative to the traction means
means	2812/02861 moving the materials over supporting surfaces
2812/02445 the surfaces being an endless belt	by impeller means, e.g. scrapers
2812/02455 the surfaces being above, between or	2812/02871 for bulk material
beside the traction means	2812/02881 Scraper conveyors
2812/02465 for conveyance along curves	2812/02891 Troughs, channels or conduits
2812/02475 along vertical curves	2812/029 Guiding means for displaceable
2812/02485 the load-carrying surfaces being fixed	conveyor accessories
or non-movably linked to the traction	2812/0291 Supporting arrangements for cables or
means	ducts
2812/02495 load-carrying surfaces using platforms	2812/0292 with oppositely-moving parts of the
or grids	conveyor located in a common plane
2812/02504 load-carrying surfaces with up-	2812/0293 Guiding means for the scrapers
standing walls, e.g. with bucket	2812/0294 Wear pieces
profile	2812/0295 Scraper chains

2812/0296	Attachments of scrapers to traction elements	2812/0663	arranged on tracks along which the skips are guided
2812/0297	to one chain	2812/0672	Loading or unloading skips
2812/0298	to more than one chain	2812/0681	by reciprocating skips along guiding means
2812/0299	Conveyors having independant belt or chain	2812/069	for vertical shaft transport
	conveyor sections	2812/09	Walking beam conveyors
2812/03	Vibrating conveyors	2812/12	. Conveyors with reciprocating means
2812/0304	Driving means or auxiliary devices	2812/14	. Turntables
2812/0308	Driving means	2812/15	. Throwing-conveyors
2812/0312	for shaking	2812/16	Pneumatic conveyors
2812/0316	using oppositely moving cylinders	2812/1608	for bulk material
2812/032	Help-conveyors	2812/1616	Common means for pneumatic conveyors
2812/0324	Frames	2812/1625	Feeding or discharging means
2812/0328	dismountable	2812/1633	using Venturi effect
2812/0332	deformable	2812/1641	Air pressure systems
2812/0336	movable	2812/165	Details
2812/034	Frame parts	2812/1658	with fluidisation of materials
2812/0344	Guiding means for conveyed materials	2812/1666	without porous wall
2812/0348	Supporting or guiding means for troughs	2812/1675	in which materials continuously flow from
2812/0352	Rollers or balls		suction to pressure pipes
2812/0356	the roller or ball holders joining trough parts	2812/1683	without passing through the air-pressure
2812/036	Pivoting arms		generator
2812/0364	Springs	2812/1691	Pumping systems
2812/0368	Flexible non-elastic suspension means, e.g.	2812/99	Conveyor systems not otherwise provided for
	chains, cables	2813/00	Indexing codes relating to transport for special
2812/0372	Connections between trough parts	2013/00	purposes
2812/0376	using a traction or stiffening means connecting	2813/02	Devices without motors and bearing wheels for
	all trough parts	2013/02	moving or tilting heavy loads
2812/038	adjustable	2813/023	. Load-carriers
	Troughs, tubes or the like	2813/026	• • for bales, boxes or the like, by using pointed
2812/0388	characterised by the configuration	2012/020	· · · rer cares, cones or the line, cy using pointed
			means
2812/0392	Screw-, spiral- or ring-shaped		
		2814/00	Indexing codes relating to loading or unloading
2812/0392 2812/0396 2812/05	 Screw-, spiral- or ring-shaped characterised by the material. Screw-conveyors		Indexing codes relating to loading or unloading articles or bulk materials
2812/0392 2812/0396 2812/05	 Screw-, spiral- or ring-shaped characterised by the material . Screw-conveyors . Driving means, constitutive elements or auxiliary 	2814/02	Indexing codes relating to loading or unloading articles or bulk materials . Auxiliary devices or arrangements
2812/0392 2812/0396 2812/05 2812/0505	Screw-, spiral- or ring-shaped characterised by the material . Screw-conveyors . Driving means, constitutive elements or auxiliary devices		 Indexing codes relating to loading or unloading articles or bulk materials Auxiliary devices or arrangements for preventing breakage, pulverisation or damage
2812/0392 2812/0396 2812/05 2812/0505 2812/0511	Screw-, spiral- or ring-shaped characterised by the material . Screw-conveyors . Driving means, constitutive elements or auxiliary devices Conveyor screws	2814/02 2814/0205	 Indexing codes relating to loading or unloading articles or bulk materials Auxiliary devices or arrangements for preventing breakage, pulverisation or damage to materials
2812/0392 2812/0396 2812/05 2812/0505 2812/0511 2812/0516	 Screw-, spiral- or ring-shaped characterised by the material . Screw-conveyors . Driving means, constitutive elements or auxiliary devices Conveyor screws characterised by the material 	2814/02	 Indexing codes relating to loading or unloading articles or bulk materials Auxiliary devices or arrangements for preventing breakage, pulverisation or damage to materials using moving braking means to slow down the
2812/0392 2812/0396 2812/05 2812/0505 2812/0511 2812/0516 2812/0522	 Screw-, spiral- or ring-shaped characterised by the material . Screw-conveyors . Driving means, constitutive elements or auxiliary devices Conveyor screws characterised by the material Flexible screws 	2814/02 2814/0205 2814/0211	 Indexing codes relating to loading or unloading articles or bulk materials Auxiliary devices or arrangements for preventing breakage, pulverisation or damage to materials using moving braking means to slow down the speed during free fall
2812/0392 2812/0396 2812/05 2812/0505 2812/0511 2812/0516 2812/0522	 Screw-, spiral- or ring-shaped characterised by the material . Screw-conveyors . Driving means, constitutive elements or auxiliary devices Conveyor screws characterised by the material Flexible screws characterised by the configuration, e.g. 	2814/0205 2814/0205 2814/0211 2814/0217	 Indexing codes relating to loading or unloading articles or bulk materials Auxiliary devices or arrangements for preventing breakage, pulverisation or damage to materials using moving braking means to slow down the speed during free fall for emptying as completely as possible
2812/0392 2812/0396 2812/05 2812/0505 2812/0511 2812/0516 2812/0522 2812/0527	 Screw-, spiral- or ring-shaped characterised by the material . Screw-conveyors . Driving means, constitutive elements or auxiliary devices Conveyor screws characterised by the material Flexible screws characterised by the configuration, e.g. hollow, toothed 	2814/02 2814/0205 2814/0211 2814/0217 2814/0223	 Indexing codes relating to loading or unloading articles or bulk materials Auxiliary devices or arrangements for preventing breakage, pulverisation or damage to materials using moving braking means to slow down the speed during free fall for emptying as completely as possible General arrangements
2812/0392 2812/0396 2812/05 2812/0505 2812/0511 2812/0516 2812/0522 2812/0527 2812/0533	 Screw-, spiral- or ring-shaped characterised by the material . Screw-conveyors . Driving means, constitutive elements or auxiliary devices Conveyor screws characterised by the material Flexible screws characterised by the configuration, e.g. hollow, toothed with opposite threads 	2814/02 2814/0205 2814/0211 2814/0217 2814/0223 2814/0229	 Indexing codes relating to loading or unloading articles or bulk materials Auxiliary devices or arrangements for preventing breakage, pulverisation or damage to materials using moving braking means to slow down the speed during free fall for emptying as completely as possible General arrangements Air jet devices
2812/0392 2812/0396 2812/05 2812/0505 2812/0511 2812/0516 2812/0522 2812/0527 2812/0533 2812/0538	 Screw-, spiral- or ring-shaped characterised by the material . Screw-conveyors . Driving means, constitutive elements or auxiliary devices Conveyor screws characterised by the material Flexible screws characterised by the configuration, e.g. hollow, toothed with opposite threads with changing diameter 	2814/02 2814/0205 2814/0211 2814/0217 2814/0223 2814/0229 2814/0235	 Indexing codes relating to loading or unloading articles or bulk materials Auxiliary devices or arrangements for preventing breakage, pulverisation or damage to materials using moving braking means to slow down the speed during free fall for emptying as completely as possible General arrangements Air jet devices using liquid means
2812/0392 2812/0396 2812/05 2812/0505 2812/0505 2812/0511 2812/0522 2812/0527 2812/0533 2812/0538 2812/0544	 Screw-, spiral- or ring-shaped characterised by the material . Screw-conveyors . Driving means, constitutive elements or auxiliary devices Conveyor screws characterised by the material Flexible screws characterised by the configuration, e.g. hollow, toothed with opposite threads with changing diameter Houses or frames 	2814/02 2814/0205 2814/0211 2814/0217 2814/0223 2814/0229 2814/0235	 Indexing codes relating to loading or unloading articles or bulk materials Auxiliary devices or arrangements for preventing breakage, pulverisation or damage to materials using moving braking means to slow down the speed during free fall for emptying as completely as possible General arrangements Air jet devices using liquid means for spreading out the material over the whole
2812/0392 2812/0396 2812/05 2812/0505 2812/0505 2812/0511 2812/0516 2812/0522 2812/0527 2812/0533 2812/0538 2812/0544 2812/055	 Screw-, spiral- or ring-shaped characterised by the material . Screw-conveyors . Driving means, constitutive elements or auxiliary devices Conveyor screws characterised by the material Flexible screws characterised by the configuration, e.g. hollow, toothed with opposite threads with changing diameter Houses or frames Connecting means 	2814/02 2814/0205 2814/0211 2814/0217 2814/0223 2814/0229 2814/0235 2814/0241	 Indexing codes relating to loading or unloading articles or bulk materials Auxiliary devices or arrangements for preventing breakage, pulverisation or damage to materials using moving braking means to slow down the speed during free fall for emptying as completely as possible General arrangements Air jet devices using liquid means for spreading out the material over the whole surface to be loaded
2812/0392 2812/0396 2812/05 2812/0505 2812/0505 2812/0511 2812/0516 2812/0522 2812/0527 2812/0533 2812/0538 2812/0544 2812/055	 Screw-, spiral- or ring-shaped characterised by the material . Screw-conveyors . Driving means, constitutive elements or auxiliary devices Conveyor screws characterised by the material Flexible screws characterised by the configuration, e.g. hollow, toothed with opposite threads with changing diameter Houses or frames Connecting means characterised by the materials, e.g. flexible 	2814/02 2814/0205 2814/0211 2814/0217 2814/0223 2814/0229 2814/0235 2814/0241 2814/0247	 Indexing codes relating to loading or unloading articles or bulk materials Auxiliary devices or arrangements for preventing breakage, pulverisation or damage to materials using moving braking means to slow down the speed during free fall for emptying as completely as possible General arrangements Air jet devices using liquid means for spreading out the material over the whole surface to be loaded by displacement of the feeding means
2812/0392 2812/0396 2812/05 2812/0505 2812/0505 2812/0511 2812/0516 2812/0522 2812/0527 2812/0533 2812/0538 2812/0544 2812/055 2812/0555	 Screw-, spiral- or ring-shaped characterised by the material . Screw-conveyors . Driving means, constitutive elements or auxiliary devices Conveyor screws characterised by the material Flexible screws characterised by the configuration, e.g. hollow, toothed with opposite threads with changing diameter Houses or frames Connecting means characterised by the materials, e.g. flexible houses 	2814/02 2814/0205 2814/0211 2814/0217 2814/0223 2814/0229 2814/0235 2814/0241 2814/0247 2814/0252	 Indexing codes relating to loading or unloading articles or bulk materials Auxiliary devices or arrangements for preventing breakage, pulverisation or damage to materials using moving braking means to slow down the speed during free fall for emptying as completely as possible General arrangements Air jet devices using liquid means for spreading out the material over the whole surface to be loaded by displacement of the feeding means using scraping belts or chains
2812/0392 2812/0396 2812/05 2812/0505 2812/0505 2812/0511 2812/0516 2812/0522 2812/0527 2812/0533 2812/0538 2812/0544 2812/0555 2812/0555	 Screw-, spiral- or ring-shaped characterised by the material . Screw-conveyors . Driving means, constitutive elements or auxiliary devices Conveyor screws characterised by the material Flexible screws characterised by the configuration, e.g. hollow, toothed with opposite threads with changing diameter Houses or frames Connecting means characterised by the materials, e.g. flexible houses characterised by the shape 	2814/02 2814/0205 2814/0211 2814/0217 2814/0223 2814/0229 2814/0235 2814/0241 2814/0247 2814/0252 2814/0258	 Indexing codes relating to loading or unloading articles or bulk materials Auxiliary devices or arrangements for preventing breakage, pulverisation or damage to materials using moving braking means to slow down the speed during free fall for emptying as completely as possible General arrangements Air jet devices using liquid means for spreading out the material over the whole surface to be loaded by displacement of the feeding means using scraping belts or chains using shaking or vibrating means
2812/0392 2812/0396 2812/055 2812/0505 2812/0505 2812/0511 2812/0522 2812/0527 2812/0533 2812/0538 2812/0544 2812/0555 2812/0555 2812/0566	 Screw-, spiral- or ring-shaped characterised by the material . Screw-conveyors . Driving means, constitutive elements or auxiliary devices Conveyor screws characterised by the material Flexible screws characterised by the configuration, e.g. hollow, toothed with opposite threads with changing diameter Houses or frames Connecting means characterised by the materials, e.g. flexible houses characterised by the shape for preventing blockage of materials 	2814/02 2814/0205 2814/0211 2814/0217 2814/0223 2814/0229 2814/0235 2814/0241 2814/0247 2814/0258 2814/0258 2814/0264	Indexing codes relating to loading or unloading articles or bulk materials Auxiliary devices or arrangements or for preventing breakage, pulverisation or damage to materials or using moving braking means to slow down the speed during free fall or for emptying as completely as possible or General arrangements or Air jet devices or using liquid means or for spreading out the material over the whole surface to be loaded or by displacement of the feeding means or using scraping belts or chains or using screw conveyors
2812/0392 2812/0396 2812/05 2812/0505 2812/0505 2812/0511 2812/0516 2812/0527 2812/0527 2812/0538 2812/0538 2812/0544 2812/0555 2812/0555 2812/0566 2812/0572	 Screw-, spiral- or ring-shaped characterised by the material . Screw-conveyors . Driving means, constitutive elements or auxiliary devices Conveyor screws characterised by the material Flexible screws characterised by the configuration, e.g. hollow, toothed with opposite threads with changing diameter Houses or frames Connecting means characterised by the materials, e.g. flexible houses characterised by the shape for preventing blockage of materials Discharging valves 	2814/02 2814/0205 2814/0211 2814/0217 2814/0223 2814/0229 2814/0235 2814/0241 2814/0247 2814/0258 2814/0264 2814/027	Indexing codes relating to loading or unloading articles or bulk materials Auxiliary devices or arrangements or for preventing breakage, pulverisation or damage to materials or using moving braking means to slow down the speed during free fall or for emptying as completely as possible or General arrangements or Air jet devices or using liquid means or for spreading out the material over the whole surface to be loaded or by displacement of the feeding means or using scraping belts or chains or using screw conveyors using chutes
2812/0392 2812/0396 2812/0505 2812/0505 2812/0505 2812/0511 2812/0522 2812/0527 2812/0533 2812/0538 2812/0544 2812/055 2812/0555 2812/0566 2812/0572 2812/0577	 Screw-, spiral- or ring-shaped characterised by the material . Screw-conveyors . Driving means, constitutive elements or auxiliary devices Conveyor screws characterised by the material Flexible screws characterised by the configuration, e.g. hollow, toothed with opposite threads with changing diameter Houses or frames Connecting means characterised by the materials, e.g. flexible houses characterised by the shape for preventing blockage of materials Discharging valves for bulk material 	2814/02 2814/0205 2814/0211 2814/0217 2814/0223 2814/0229 2814/0235 2814/0241 2814/0247 2814/0252 2814/0258 2814/0264 2814/027 2814/0276	Indexing codes relating to loading or unloading articles or bulk materials Auxiliary devices or arrangements or for preventing breakage, pulverisation or damage to materials or using moving braking means to slow down the speed during free fall or for emptying as completely as possible or General arrangements or Air jet devices or using liquid means or for spreading out the material over the whole surface to be loaded or by displacement of the feeding means or using scraping belts or chains or using screw conveyors or using chutes using scraping means other than belts or chains
2812/0392 2812/0396 2812/0505 2812/0505 2812/0505 2812/0511 2812/0516 2812/0522 2812/0527 2812/0533 2812/0538 2812/0544 2812/0555 2812/0555 2812/0566 2812/0572 2812/0577 2812/0583	 Screw-, spiral- or ring-shaped characterised by the material . Screw-conveyors . Driving means, constitutive elements or auxiliary devices Conveyor screws characterised by the material Flexible screws characterised by the configuration, e.g. hollow, toothed with opposite threads with changing diameter Houses or frames Connecting means characterised by the materials, e.g. flexible houses characterised by the shape for preventing blockage of materials Discharging valves . for bulk material . Drum arrangements 	2814/02 2814/0205 2814/0211 2814/0217 2814/0223 2814/0229 2814/0235 2814/0241 2814/0247 2814/0252 2814/0258 2814/0264 2814/027 2814/0276 2814/0282	Indexing codes relating to loading or unloading articles or bulk materials Auxiliary devices or arrangements for preventing breakage, pulverisation or damage to materials using moving braking means to slow down the speed during free fall for emptying as completely as possible General arrangements using liquid means for spreading out the material over the whole surface to be loaded by displacement of the feeding means using scraping belts or chains using screw conveyors using screw conveyors using scraping means other than belts or chains using turntables
2812/0392 2812/0396 2812/055 2812/0505 2812/0505 2812/0516 2812/0522 2812/0527 2812/0533 2812/0538 2812/0544 2812/055 2812/0555 2812/0566 2812/0572 2812/0577 2812/0583 2812/0588	 Screw-, spiral- or ring-shaped characterised by the material . Screw-conveyors . Driving means, constitutive elements or auxiliary devices Conveyor screws characterised by the material Flexible screws characterised by the configuration, e.g. hollow, toothed with opposite threads with changing diameter Houses or frames Connecting means characterised by the materials, e.g. flexible houses characterised by the shape for preventing blockage of materials Discharging valves . for bulk material . Drum arrangements . without houses 	2814/02 2814/0205 2814/0211 2814/0217 2814/0223 2814/0229 2814/0235 2814/0241 2814/0247 2814/0252 2814/0258 2814/0264 2814/027 2814/0276 2814/0282 2814/0288	Indexing codes relating to loading or unloading articles or bulk materials Auxiliary devices or arrangements or for preventing breakage, pulverisation or damage to materials or using moving braking means to slow down the speed during free fall or for emptying as completely as possible or General arrangements or Air jet devices or using liquid means or for spreading out the material over the whole surface to be loaded or by displacement of the feeding means or using scraping belts or chains or using screw conveyors or using chutes or using scraping means other than belts or chains using turntables using throwing means
2812/0392 2812/0396 2812/0505 2812/0505 2812/0505 2812/0516 2812/0522 2812/0527 2812/0533 2812/0538 2812/0544 2812/0555 2812/0566 2812/0566 2812/0577 2812/0583 2812/0588 2812/0588 2812/0594	 Screw-, spiral- or ring-shaped characterised by the material . Screw-conveyors . Driving means, constitutive elements or auxiliary devices Conveyor screws characterised by the material Flexible screws characterised by the configuration, e.g. hollow, toothed with opposite threads with changing diameter Houses or frames Connecting means characterised by the materials, e.g. flexible houses characterised by the shape for preventing blockage of materials Discharging valves . for bulk material . Drum arrangements . without houses . with parallel screws 	2814/02 2814/0205 2814/0211 2814/0217 2814/0223 2814/0229 2814/0235 2814/0241 2814/0247 2814/0252 2814/0258 2814/0264 2814/027 2814/0276 2814/0282 2814/0288 2814/0294	Indexing codes relating to loading or unloading articles or bulk materials Auxiliary devices or arrangements or for preventing breakage, pulverisation or damage to materials or using moving braking means to slow down the speed during free fall or for emptying as completely as possible or General arrangements or Air jet devices or using liquid means or for spreading out the material over the whole surface to be loaded or by displacement of the feeding means or using scraping belts or chains or using scraping belts or chains or using screw conveyors or using chutes or using scraping means other than belts or chains using turntables using throwing means using air jets
2812/0392 2812/0396 2812/0505 2812/0505 2812/0505 2812/0511 2812/0516 2812/0522 2812/0527 2812/0538 2812/0538 2812/0544 2812/0555 2812/0555 2812/0566 2812/0572 2812/0577 2812/0583 2812/0588 2812/0594 2812/0594	 Screw-, spiral- or ring-shaped characterised by the material . Screw-conveyors . Driving means, constitutive elements or auxiliary devices Conveyor screws characterised by the material Flexible screws characterised by the configuration, e.g. hollow, toothed with opposite threads with changing diameter Houses or frames Connecting means characterised by the materials, e.g. flexible houses characterised by the shape for preventing blockage of materials Discharging valves . for bulk material . Drum arrangements . without houses . with parallel screws . Skip or hopper conveyors 	2814/02 2814/0205 2814/0211 2814/0217 2814/0223 2814/0229 2814/0235 2814/0241 2814/0252 2814/0258 2814/0264 2814/027 2814/027 2814/027 2814/0288 2814/0288 2814/0294 2814/03	Indexing codes relating to loading or unloading articles or bulk materials Auxiliary devices or arrangements or for preventing breakage, pulverisation or damage to materials or using moving braking means to slow down the speed during free fall or for emptying as completely as possible or General arrangements or Air jet devices or using liquid means or for spreading out the material over the whole surface to be loaded or by displacement of the feeding means or using scraping belts or chains or using shaking or vibrating means or using screw conveyors or using chutes or using scraping means other than belts or chains or using turntables or using air jets Loading or unloading means
2812/0392 2812/0396 2812/0505 2812/0505 2812/0505 2812/0511 2812/0516 2812/0522 2812/0527 2812/0538 2812/0538 2812/0555 2812/0555 2812/0566 2812/0572 2812/0577 2812/0583 2812/0588 2812/0594 2812/0609	 Screw-, spiral- or ring-shaped characterised by the material . Screw-conveyors . Driving means, constitutive elements or auxiliary devices Conveyor screws characterised by the material Flexible screws characterised by the configuration, e.g. hollow, toothed with opposite threads with changing diameter Houses or frames Connecting means characterised by the materials, e.g. flexible houses characterised by the shape for preventing blockage of materials Discharging valves . for bulk material Drum arrangements without houses with parallel screws . Skip or hopper conveyors . Constitutive elements or auxiliary devices 	2814/02 2814/0205 2814/0211 2814/0217 2814/0223 2814/0229 2814/0235 2814/0241 2814/0252 2814/0258 2814/0264 2814/027 2814/027 2814/027 2814/0282 2814/0288 2814/0294 2814/03 2814/0301	Indexing codes relating to loading or unloading articles or bulk materials Auxiliary devices or arrangements or for preventing breakage, pulverisation or damage to materials or using moving braking means to slow down the speed during free fall or for emptying as completely as possible or General arrangements or Air jet devices or using liquid means or for spreading out the material over the whole surface to be loaded or by displacement of the feeding means or using scraping belts or chains or using scraping belts or chains or using screw conveyors or using chutes or using scraping means other than belts or chains or using turntables or using throwing means or using air jets Loading or unloading means General arrangements
2812/0392 2812/0396 2812/0505 2812/0505 2812/0505 2812/0516 2812/0522 2812/0527 2812/0538 2812/0538 2812/0555 2812/0555 2812/0566 2812/0572 2812/0577 2812/0577 2812/0583 2812/0588 2812/0594 2812/0609 2812/0618	 Screw-, spiral- or ring-shaped 	2814/02 2814/0205 2814/0211 2814/0217 2814/0223 2814/0229 2814/0235 2814/0241 2814/0252 2814/0258 2814/0264 2814/027 2814/027 2814/027 2814/0288 2814/0288 2814/0294 2814/03 2814/0301 2814/0302	Indexing codes relating to loading or unloading articles or bulk materials Auxiliary devices or arrangements or for preventing breakage, pulverisation or damage to materials or using moving braking means to slow down the speed during free fall or for emptying as completely as possible or General arrangements or Air jet devices or using liquid means or for spreading out the material over the whole surface to be loaded or by displacement of the feeding means or using scraping belts or chains or using scraping belts or chains or using screw conveyors or using screw conveyors or using chutes or using turntables or using turntables or using air jets Loading or unloading means General arrangements Or Central control devices
2812/0392 2812/0396 2812/0505 2812/0505 2812/0505 2812/0516 2812/0522 2812/0527 2812/0538 2812/0538 2812/0544 2812/0555 2812/0555 2812/0566 2812/0572 2812/0577 2812/0583 2812/0588 2812/0594 2812/0609 2812/0618 2812/0627	 Screw-, spiral- or ring-shaped 	2814/02 2814/0205 2814/0211 2814/0217 2814/0223 2814/0229 2814/0235 2814/0241 2814/0247 2814/0252 2814/0258 2814/0264 2814/027 2814/0276 2814/0282 2814/0288 2814/0303 2814/0301 2814/0304	Indexing codes relating to loading or unloading articles or bulk materials Auxiliary devices or arrangements or for preventing breakage, pulverisation or damage to materials or using moving braking means to slow down the speed during free fall or for emptying as completely as possible or General arrangements or Air jet devices or using liquid means or for spreading out the material over the whole surface to be loaded or by displacement of the feeding means or using scraping belts or chains or using scraping belts or chains or using screw conveyors or using screw conveyors or using chutes or using turntables or using throwing means or using air jets Loading or unloading means General arrangements Central control devices Stacking devices
2812/0392 2812/0396 2812/0505 2812/0505 2812/0505 2812/0516 2812/0522 2812/0527 2812/0533 2812/0538 2812/0544 2812/0555 2812/0555 2812/0566 2812/0577 2812/0577 2812/0583 2812/0588 2812/0594 2812/0609 2812/0618 2812/0627 2812/0636	 Screw-, spiral- or ring-shaped 	2814/02 2814/0205 2814/0211 2814/0217 2814/0223 2814/0229 2814/0235 2814/0241 2814/0247 2814/0252 2814/0258 2814/027 2814/027 2814/0276 2814/0282 2814/0288 2814/0301 2814/0301 2814/0304 2814/0305	Indexing codes relating to loading or unloading articles or bulk materials Auxiliary devices or arrangements or for preventing breakage, pulverisation or damage to materials or using moving braking means to slow down the speed during free fall or for emptying as completely as possible or General arrangements or Air jet devices or using liquid means or for spreading out the material over the whole surface to be loaded or by displacement of the feeding means or using scraping belts or chains or using scraping belts or chains or using screw conveyors or using scraping means other than belts or chains or using turntables or using turntables or using air jets Loading or unloading means or General arrangements or Central control devices Stacking devices Adding to the top
2812/0392 2812/0396 2812/0505 2812/0505 2812/0505 2812/0516 2812/0522 2812/0527 2812/0533 2812/0538 2812/0544 2812/055 2812/0555 2812/0566 2812/0572 2812/0577 2812/0583 2812/0588 2812/0594 2812/0609 2812/0618 2812/0627 2812/0636 2812/0645		2814/02 2814/0205 2814/0211 2814/0217 2814/0223 2814/0229 2814/0235 2814/0241 2814/0247 2814/0252 2814/0258 2814/0264 2814/027 2814/0276 2814/0282 2814/0288 2814/0303 2814/0301 2814/0304	Indexing codes relating to loading or unloading articles or bulk materials Auxiliary devices or arrangements or for preventing breakage, pulverisation or damage to materials or using moving braking means to slow down the speed during free fall or for emptying as completely as possible or General arrangements or Air jet devices or using liquid means or for spreading out the material over the whole surface to be loaded or by displacement of the feeding means or using scraping belts or chains or using scraping belts or chains or using screw conveyors or using chutes or using chutes or using turntables or using turntables or using throwing means or using air jets Loading or unloading means or General arrangements or Central control devices or Stacking devices or Adding to the top or the loading platform being lowered during
2812/0392 2812/0396 2812/0505 2812/0505 2812/0505 2812/0516 2812/0522 2812/0527 2812/0533 2812/0538 2812/0544 2812/0555 2812/0555 2812/0566 2812/0577 2812/0577 2812/0583 2812/0588 2812/0594 2812/0609 2812/0618 2812/0627 2812/0636	 Screw-, spiral- or ring-shaped 	2814/02 2814/0205 2814/0211 2814/0217 2814/0223 2814/0229 2814/0235 2814/0241 2814/0252 2814/0258 2814/0264 2814/027 2814/0276 2814/0282 2814/0288 2814/0288 2814/0301 2814/0301 2814/0305 2814/0307	Indexing codes relating to loading or unloading articles or bulk materials Auxiliary devices or arrangements or for preventing breakage, pulverisation or damage to materials or using moving braking means to slow down the speed during free fall or for emptying as completely as possible or General arrangements or Air jet devices or using liquid means or for spreading out the material over the whole surface to be loaded or by displacement of the feeding means or using scraping belts or chains or using scraping belts or chains or using screw conveyors or using scraping means other than belts or chains or using turntables or using turntables or using air jets Loading or unloading means or General arrangements or Central control devices Stacking devices Adding to the top

2814/031	Removing from the top
2814/0311	Other article loading or unloading devices
2814/0313	with vertically reciprocating platforms
2814/0314	for moving bulk material downwards
2814/0316	• • • to a storage room
2814/0317	by tipping a container
2814/0319	through a closable or non-closable outlet
	opening
2814/032	using a belt or chain conveyor in or
	beneath the opening
2814/0322	as measuring instrument
2814/0323	with chutes or plates in or beneath the
	opening
2814/0325	with rotating drums, cylinders or cones in
	or beneath the opening
2814/0326	for moving bulk material upwards or
	horizontally
2814/0328	Picking-up means
2814/0329	Common features for picking-up means
2814/0331	Belt or chain conveyors
2814/0332	Bucket conveyors
2814/0334	Scraper conveyors
2814/0335	Shaking or vibrating conveyors
2814/0337	Paddle wheels
2814/0338	Inclined plates or chutes
2814/034	Raking devices
2814/0341	Scraping devices
2814/0343	Rotating discs, drums or gathering arms
2814/0344	Control or feeding or discharging using level or
	weight measuring means
2814/0346	for guided skips
2814/0347	for cars or linked car-trains with individual load-
	carriers
2814/0349	loading continuously successive cars without
	material spillage
2814/035	Feeding or discharging devices adapted to car
	shapes
2814/0352	Feeding or discharging devices operated by
	cars
2814/0353	the load being lifted and the cars being moved
	beneath the load
2814/0355	the car floor and subframe being tilted or
	removed
2814/0356	the whole car being tilted
2814/0358	by means of tilting rails
2814/0359	by means of car tipplers
2814/0361	Accessories
2814/0362	locking or unlocking cars in the tipplers
2814/0364	Means for loading or unloading cars in
	the tipplers
2814/0365	Moving devices for tipplers
2814/0367	Lifting means
2814/0368	Means enhancing unloading
2814/037	using a tipping platform incorporated in a ring-like rotating structure
2814/0371	Driving means therefor
2814/0371	the rotation resulting from power
2014/03/3	driven displacement of the structure
2814/0374	the rotation resulting from the car
2014/03/4	weight only
2814/0376	with relative movement between
2011/03/10	platform and structure
	r

2814/0377	with simultaneous tipping of several
	cars above or beside each other
2814/0379	using a tipping platform without ring-like
	structure
2814/038	Driving means therefor
2814/0382	Fluid-operated lifting means
2814/0383	Lifting means with suspended
	platforms
2814/0385	the platform tipping around a single axis
2814/0386	the axis remaining in a fixed position
2814/0388	the axis being parallel with the car
	longitudinal axis
2814/0389	the axis being parallel with the car
	transverse axis
2814/0391	the axis being moved parallel with
	itself
2814/0392	the platform tipping around several axes
2814/0394	around parallel axes
2814/0395	around crossing axes
2814/0397	for ships
2814/0398	for aircraft