

# CPC COOPERATIVE PATENT CLASSIFICATION

## B PERFORMING OPERATIONS; TRANSPORTING

(NOTES omitted)

### TRANSPORTING

#### B66 HOISTING; LIFTING; HAULING

#### B66C CRANES; LOAD-ENGAGING ELEMENTS OR DEVICES FOR CRANES, CAPSTANS, WINCHES, OR TACKLES ({specially adapted for lifting invalids [A61G 7/10](#);} rope, cable, or chain winding mechanisms, braking or detent devices therefor [B66D](#); specially adapted for nuclear reactors [G21](#))

##### WARNINGS

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

<a href="#">B66C 23/61</a>	covered by	<a href="#">B66C 23/60</a>
<a href="#">B66C 23/683</a>	covered by	<a href="#">B66C 23/68</a>
<a href="#">B66C 23/687</a>	covered by	<a href="#">B66C 23/701</a>
<a href="#">B66C 23/69</a>	covered by	<a href="#">B66C 23/701</a>
<a href="#">B66C 23/693</a>	covered by	<a href="#">B66C 23/705</a>
<a href="#">B66C 23/697</a>	covered by	<a href="#">B66C 23/707</a>
- 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.

#### Load-engaging elements or devices attached to lifting or lowering gear of cranes or adapted for connection therewith

##### NOTE

In groups [B66C 1/00](#) and [B66C 3/00](#) the term "cranes" also covers capstans, winches, or tackles

- 1/00 Load-engaging elements or devices attached to lifting or lowering gear of cranes or adapted for connection therewith for transmitting lifting forces to articles or groups of articles (fastening to cables or ropes [F16G 11/00](#))**
- 1/02 . by suction means ({[suction cups for attaching purposes \[F16B 47/00\]\(#\)](#)})
- 1/0206 . . {for handling bulk or bags}
- 1/0212 . . {Circular shape}
- 1/0218 . . {Safety measures, e.g. sensors, duplicate functions}
- 1/0225 . . {Hand held}
- 1/0231 . . {Special lip configurations}
- 1/0237 . . {Multiple lifting units; More than one suction area}
- 1/0243 . . . {Separate cups}
- 1/025 . . . {Divided cups}
- 1/0256 . . {Operating and control devices}
- 1/0262 . . . {for rotation}
- 1/0268 . . . {Venturi effect}
- 1/0275 . . . {actuated by lifting action}
- 1/0281 . . {Rectangular or square shape}
- 1/0287 . . {Other shapes, e.g. triangular or oval}
- 1/0293 . . {Single lifting units; Only one suction cup}
- 1/04 . by magnetic means
- 1/06 . . electromagnetic

- 1/08 . . . Circuits therefor ([for electromagnets in general \[H01F 7/18\]\(#\)](#))
- 1/10 . by mechanical means
- 1/101 . . {for containers ([B66C 1/223](#) and [B66C 1/663](#) take precedence)}
- 1/102 . . . {for two or more containers end to end}
- 1/104 . . . {for two or more containers side by side}
- 1/105 . . {Lifting beam permitting to depose a load through an opening}
- 1/107 . . {for lifting engines}
- 1/108 . . {for lifting parts of wind turbines}
- 1/12 . . Slings comprising chains, wires, ropes, or bands; Nets ([article side grippers suspended by ropes or chains from crane hooks \[B66C 1/42\]\(#\)](#))
- 1/122 . . . {Sling or load protectors}
- 1/125 . . . {Chain-type slings ([chains in general \[F16G\]\(#\)](#))}
- 1/127 . . . {Nets}
- 1/14 . . . Slings with hooks
- 1/16 . . . Slings with load-engaging platforms or frameworks
- 1/18 . . . Band-type slings
- 1/20 . . . specially adapted for handling vehicles
- 1/22 . . Rigid members, e.g. L-shaped members, with parts engaging the under surface of the loads; Crane hooks
- 1/223 . . . {for containers}
- 1/226 . . . {for flexible intermediate bulk containers [FIBC]}
- 1/24 . . . Single members engaging the loads from one side only
- 1/26 . . . . with means for releasing the loads
- 1/28 . . . Duplicate, e.g. pivoted, members engaging the loads from two sides

- 1/30 . . . . and also arranged to grip the sides of the loads
- 1/32 . . . . . of piled or stacked articles
- 1/34 . . . Crane hooks
- 1/36 . . . . with means, e.g. spring-biased detents, for preventing inadvertent disengagement of loads
- 1/38 . . . . adapted for automatic disengagement from loads on release of cable tensions ([for parachutes {B64D 17/00}](#))
- 1/40 . . . . formed or fitted with load measuring or indicating devices
- 1/42 . . Gripping members engaging only the external or internal surfaces of the articles ([for handling or stripping castings or ingots during manufacture B22D 29/00](#))
- 1/422 . . . {[actuated by lifting force \(B66C 1/44, B66C 1/58 take precedence\)](#)}
- 1/425 . . . {[motor actuated \(B66C 1/44, B66C 1/58 take precedence\)](#)}
- 1/427 . . . . {[by hydraulic or pneumatic motors](#)}
- 1/44 . . . and applying frictional forces
- 1/442 . . . . {[actuated by lifting force](#)}
- 1/445 . . . . {[motor actuated](#)}
- 1/447 . . . . . {[by hydraulic or pneumatic motors](#)}
- 1/46 . . . . by inflatable elements
- 1/48 . . . . to vertical edge portions of sheets, tubes, or like thin or thin-walled articles ([internally-expanding grippers B66C 1/54](#))
- 1/485 . . . . . {[Coil lifting devices](#)}
- 1/54 . . . . Internally-expanding grippers for handling hollow articles ([B66C 1/46 takes precedence](#))
- 1/56 . . . . . for handling tubes
- 1/58 . . . and deforming the articles, e.g. by using gripping members such as tongs or grapples
- 1/585 . . . . {[Log grapples](#)}
- 1/59 . . . . Tongs for sacks
- 1/62 . . comprising article-engaging members of a shape complementary to that of the articles to be handled
- 1/625 . . . {[for gripping drums or barrels](#)}
- 1/64 . . . for T- or I-section beams or girders
- 1/66 . . . for engaging holes, recesses, or abutments on articles specially provided for facilitating handling thereof
- 1/663 . . . . {[for containers \(fastening of containers on vehicles B60P 7/13, B60P 7/132\)](#)}
- 1/666 . . . . {[for connection to anchor inserts embedded in concrete structures](#)}
- 1/68 . . mounted on, or guided by, jibs ([jibs B66C 23/64](#))
- 3/00 Load-engaging elements or devices attached to lifting or lowering gear of cranes or adapted for connection therewith and intended primarily for transmitting lifting forces to loose materials; Grabs (buckets and other containers B65D, e.g. pallets B65D 19/00; dredges equipped with grabs E02F)**
- 3/005 . . {[Grab supports, e.g. articulations; Oscillation dampers; Orientation \(B66C 3/16 takes precedence\)](#)}
- 3/02 . Bucket grabs
- 3/04 . Tine grabs
- 3/06 . Grabs actuated by a single rope or chain

- 3/08 . . and having tipping rings
- 3/10 . . and having buckets opening automatically upon the grab being lowered on to the dump of material
- 3/105 . . . {[Devices for control](#)}
- 3/12 . Grabs actuated by two or more ropes
- 3/125 . . {[Devices for control](#)}
- 3/14 . Grabs opened or closed by driving motors thereon
- 3/16 . . by fluid motors
- 3/18 . . by electric motors
- 3/20 . . mounted on, or guided by, jibs ([jibs B66C 23/64](#))

#### Other common features; Details

- 5/00 Base supporting structures with legs**
- 5/02 . Fixed or travelling bridges or gantries, i.e. elongated structures of inverted L or of inverted U shape ([or tripods](#))
- 5/025 . . {[Tripods](#)}
- 5/04 . . with runways or tracks supported for movements relative to bridge or gantry
- 5/06 . . with runways or tracks supported for lateral swinging movements
- 5/08 . . with vertically invlinable runways or tracks
- 5/10 . Portals, i.e. essentially circular or square platforms with three or more legs specially adapted for supporting slewing jib cranes
- 6/00 Girders, or track-supporting structures, specially adapted for cranes (base supporting structures with legs B66C 5/00; girders in general E04C 3/02)**
- 7/00 Runways, tracks or trackways for trolleys or cranes**
- 7/02 . for underhung trolleys or cranes
- 7/04 . . Trackway suspension
- 7/06 . . . on supports constructed for easy erection, e.g. transportable
- 7/08 . Constructional features of runway rails or rail mountings ([of general application E01B](#))
- 7/10 . Arrangements or devices for extending runways or tracks
- 7/12 . Devices for changing direction of travel or for transferring from one runway to another; Crossings; Combinations of tracks of different gauges ([transfer devices of general application E01B](#))
- 7/14 . . Runway interlocking devices
- 7/16 . Devices specially adapted for limiting trolley or crane travel; Arrangements of buffer-stops ([buffer-stops of interest apart from this application B61K 7/18; limit-switch arrangements, limit circuits B66D 1/56](#))
- 9/00 Travelling gear incorporated in or fitted to trolleys or cranes ({for floor-to-roof stacking devices B66F 9/072}; for dredgers E02F)**
- 9/02 . for underhung trolleys or cranes
- 9/04 . to facilitate negotiation of curves
- 9/06 . for more than one rail gauge
- 9/08 . Runners; Runner bearings ([wheels for railbound vehicles B60B](#))
- 9/10 . Undercarriages or bogies, e.g. end carriages, end bogies
- 9/12 . . with load-distributing means for equalising wheel pressure

9/14	• Trolley or crane travel drives ( <a href="#">rope, cable, or chain drives for loads or trolleys B66C 11/16</a> ; <a href="#">control B66C 13/18</a> )	13/16	• Applications of indicating, registering, or weighing devices ( <a href="#">in crane hooks B66C 1/40</a> ; <a href="#">in safety gear B66C 15/00</a> ; <a href="#">weighing-apparatus G01G</a> ; <a href="#">remote indicating in general G08</a> )
9/16	• with means for maintaining alignment between wheels and track	13/18	• Control systems or devices ( <a href="#">exclusively for rope, cable, or chain winding mechanisms B66D 1/40</a> )
9/18	• with means for locking trolleys or cranes to runways or tracks to prevent inadvertent movements	13/20	• . . for non-electric drives ( <a href="#">transmitting control pulses B66C 13/40</a> )
<b>11/00</b>	<b>Trolleys or crabs, e.g. operating above runways (<a href="#">runways, tracks or trackways therefor B66C 7/00</a>; <a href="#">winch mechanisms B66D</a>)</b>	13/22	• . . for electric drives ( <a href="#">transmitting control pulses B66C 13/40</a> ; <a href="#">systems or devices of general application H02P</a> )
11/02	• with operating gear or operator's cabin suspended, or laterally offset, from runway or track	13/23	• . . . Circuits for controlling the lowering of the load
11/04	• . . Underhung trolleys ( <a href="#">power-operated hoists with driving motor and drum or barrel contained in a common housing B66D 3/20</a> )	13/24	• . . . . by dc motors
11/06	• . . . running on monorails ( <a href="#">overhead railway systems B61B</a> )	13/26	• . . . . by ac motors
11/08	• with turntables	13/28	• . . . . . utilising regenerative braking for controlling descent of heavy loads and having means for preventing rotation of motor in the hoisting direction when load is released
11/10	• . . equipped with jibs ( <a href="#">jib-cranes B66C 23/00</a> )	13/30	• . . . Circuits for braking, traversing, or slewing motors
11/12	• having hoisting gear adapted to special load-engaging elements and not otherwise provided for	13/32	• . . . for operating grab bucket hoists by means of one or more electric motors used both for hoisting and lowering the loads and for opening and closing the bucket jaws ( <a href="#">other aspects or rope, cable, or chain winding mechanisms specially adapted for actuating grab buckets B66D 1/62</a> )
11/14	• adapted to operate on crane or bridge structure of particular configuration, e.g. on reinforced concrete girders of rectangular cross-section		• . . . . through differential or planetary gearing
11/16	• Rope, cable, or chain drives for trolleys; Combinations of such drives with hoisting gear		• . . . . Single-motor-drive control systems
11/18	• . . comprising endless ropes or cables		• . . . . Systems controlling independent motors
11/20	• . . Arrangements, e.g. comprising differential gears, enabling simultaneous or selective operation of travelling and hoisting gear; Arrangements using the same rope or cable for both travelling and hoisting, e.g. in Temperley cranes ( <a href="#">power transmissions between driving motors and winch drums B66D 1/14</a> )	13/34	• . . Applications of devices for transmitting control pulses; Applications of remote control devices ( <a href="#">control in general G05</a> )
11/22	• . . actuated pneumatically or hydraulically	13/36	• . . . Hydraulic transmitters
11/24	• . . with means for locating or sustaining the loads or trolleys in predetermined positions; Hay hoists	13/38	• . . . Electrical transmitters
11/26	• . . . Abutments; Stop blocks; End stops	13/40	• . . Position indicators for suspended loads or for crane elements
<b>13/00</b>	<b>Other constructional features or details</b>	13/42	• . . Automatic control of crane drives for producing a single or repeated working cycle; Programme control
13/005	• { <a href="#">Cranes carrying advertisements or the like</a> }	13/44	• . . Applications of limit circuits or of limit-switch arrangements ( <a href="#">for winding mechanisms B66D 1/56</a> )
13/02	• Devices for facilitating retrieval of floating objects, e.g. for recovering crafts from water ( <a href="#">handling live-boats B63B</a> ; <a href="#">salvaging, or hauling-out on slipways, waterborne vessels B63C</a> ; <a href="#">winding mechanism controls B66D 1/52</a> )	13/46	• Details of compartments for driving engines or motors or of operator's stands or cabins
13/04	• Auxiliary devices for controlling movements of suspended loads, or preventing cable slack	13/48	• . . Operator's stands or cabins
13/06	• . . for minimising or preventing longitudinal or transverse swinging of loads	13/50	• . . . Arrangements of handles or pedals
13/063	• . . . { <a href="#">electrical</a> }	<b>15/00</b>	<b>Safety gear (<a href="#">for rope, cable, or chain winding mechanisms B66D 1/54</a>)</b>
13/066	• . . . { <a href="#">for minimising vibration of a boom</a> }	15/02	• for retaining load-engaging elements in the event of rope or cable breakage
13/08	• . . for depositing loads in desired attitudes or positions	15/04	• for preventing collisions, e.g. between cranes or trolleys operating on the same track
13/085	• . . . { <a href="#">electrical</a> }	15/045	• . . { <a href="#">electrical</a> }
13/10	• . . for preventing cable slack ( <a href="#">control devices for rope, cable, or chain winding mechanisms, e.g. for controlling tensions, B66D 1/40</a> )	15/06	• Arrangements or use of warning devices
13/105	• . . . { <a href="#">electrical</a> }	15/065	• . . { <a href="#">electrical</a> }
13/12	• Arrangements of means for transmitting pneumatic, hydraulic, or electric power to movable parts of devices		
13/14	• . . to load-engaging elements or motors associated therewith		

**Kinds or types of cranes** (adaptations of girders or of track-supporting structures [B66C 6/00](#))**17/00** Overhead travelling cranes comprising one or more substantially horizontal girders the ends of which are directly supported by wheels or rollers running on tracks carried by spaced supports

- 17/04 . with lifting beams, e.g. slewable beams, carrying load-engaging elements, e.g. magnets, hooks ([constructions of load-engaging elements B66C 1/00, B66C 3/00](#))
- 17/06 . specially adapted for particular purposes, e.g. in foundries, forges; combined with auxiliary apparatus serving particular purposes ([B66C 17/04 takes precedence](#))
- 17/08 . . for charging treatment chambers, e.g. furnaces, kilns, ovens ([charging furnaces in general F27D 3/00](#))
- 17/10 . . for transporting ladles
- 17/12 . . for handling workpieces, e.g. ingots, which require to be supported temporarily within, or withdrawn from, a treatment chamber, e.g. tong cranes, soaking-pit cranes, stripper cranes ([for manipulating ingots during forging B66C 17/18; grippers for handling or stripping castings or ingots during manufacture B22D 29/00](#))
- 17/14 . . . Tong cranes with means for moving article-pushers relative to the tongs
- 17/16 . . . Tong cranes with means for turning the tongs about a vertical axis
- 17/18 . . for manipulating workpieces during forging operations ([work-pieces manipulators in forging machines B21J 13/10](#))
- 17/20 . . for hoisting or lowering heavy load carriers, e.g. freight containers, railway wagons
- 17/22 . . for hoisting or lowering locomotives
- 17/24 . . for building ships on slipways
- 17/26 . . combined with auxiliary apparatus, e.g. log saws, pushers for unloading vehicles, means for shunting railway vehicles

**19/00** Cranes comprising trolleys or crabs running on fixed or movable bridges or gantries ([B66C 17/00 takes precedence](#); base supporting structures with legs [B66C 5/00](#); jib cranes [B66C 23/00](#))

- 19/002 . {Container cranes ([B66C 19/007 takes precedence](#))}
- 19/005 . {Straddle carriers ([B66C 19/007 takes precedence](#))}
- 19/007 . {for containers}
- 19/02 . collapsible {([B66C 19/002, B66C 19/005 takes precedence](#))}

**21/00** Cable cranes, i.e. comprising hoisting devices running on aerial cable-ways (rope or cable drives for trolleys, combinations of such drives with hoisting gear [B66C 11/16](#); railway systems [B61B](#); rope or cable winding mechanisms [B66D 1/00](#))

- 21/02 . with cable-ways supported on framework swingably connected to groundengaging elements
- 21/04 . with cable-ways supported at one end or both ends on bodily movable framework, e.g. framework mounted on rail track
- 21/06 . . with one end supported on a framework movable in a curved, e.g. circular, path and the other end by a column rotatable around a vertical axis
- 21/08 . Sag carriers or rope trolleys, suspended or not, e.g. fixed but offering clearance for travelling gear

21/10 . . travelling

**23/00** Cranes comprising essentially a beam, boom, or triangular structure acting as a cantilever and mounted for translatable or swinging movements in vertical or horizontal planes or a combination of such movements, e.g. jib-cranes, derricks, tower cranes (base supporting structures with legs [B65C 5/00](#))

- 23/005 . {with balanced jib, e.g. pantograph arrangement, the jib being moved manually}
- 23/02 . with non-adjustable and non-inclinable jibs mounted solely for slewing movements
- 23/022 . . {Pivot axis common with column}
- 23/025 . . {with particular mounting for base of column}
- 23/027 . . {Pivot axis separated from column axis}
- 23/04 . with jibs the effective length of which is variable in operation, e.g. longitudinally displaceable, extensible
- 23/06 . with jibs mounted for jibbing or luffing movements
- 23/08 . . and adapted to move the loads in predetermined paths
- 23/10 . . . the paths being substantially horizontal; Level-luffing jib-cranes
- 23/12 . . . . with means for automatically varying the effective length of the hoisting rope or cable
- 23/14 . . . . with means, e.g. pantograph arrangements, for varying jib configuration
- 23/16 . with jibs supported by columns, e.g. towers having their lower end mounted for slewing movements
- 23/163 . . {where only part of the column rotates, i.e. at least the bottom part is fixed}
- 23/166 . . {Simple cranes with jibs which may be fixed or can slew or luff}
- 23/18 . specially adapted for use in particular purposes
- 23/185 . . {for use erecting wind turbines ([B66C 23/207 takes precedence](#))}
- 23/20 . . with supporting couples provided by walls of buildings or like structures
- 23/201 . . . {with supporting couples provided from above, e.g. by ceilings of buildings}
- 23/202 . . . {with supporting couples provided from below, e.g. by floors of buildings}
- 23/203 . . . {with supporting couples provided by posts, e.g. scaffolding, trees or masts}
- 23/205 . . . {for use on top of roofs}
- 23/206 . . . {with supporting couples provided by iso containers}
- 23/207 . . . {with supporting couples provided by wind turbines}
- 23/208 . . . {with supporting couples provided from the side, e.g. by walls of buildings}
- 23/22 . . . Window cranes, i.e. adapted to be supported in window openings
- 23/24 . . . Mobile wall cranes
- 23/26 . . for use on building sites; constructed, e.g. with separable parts, to facilitate rapid assembly or dismantling, for operation at successively higher levels, for transport by road or rail ([with supporting couples provided by walls or buildings B66C 23/20; mounted on vehicles B66C 23/36; jib constructions B66C 23/64](#))
- 23/28 . . . constructed to operate at successively higher levels



23/283	. . . . {with frameworks composed of assembled elements}	23/703	. . . . . {telescoped by flexible elements, e.g. cables, chains or bands}
23/286	. . . . . {with locking devices}	23/705	. . . . . {telescoped by hydraulic jacks}
23/30	. . . . with frameworks composed of telescopic elements	23/706	. . . . . {telescoped by other means}
23/305	. . . . . {with locking devices}	23/707	. . . . . {guiding devices for telescopic jibs}
23/32	. . . . Self-hoisting cranes	23/708	. . . . . {locking devices for telescopic jibs}
23/34	. . . Self-erecting cranes, i.e. with hoisting gear adapted for crane erection purposes	23/72	. . Counterweights or supports for balancing lifting couples
23/342	. . . . . {with telescopic elements}	23/74	. . . separate from jib
23/344	. . . . . {adapted for transport purposes}	23/76	. . . . and movable to take account of variations of load or of variations of length of jib
23/346	. . . . . {with locking devices}	23/78	. . . Supports, e.g. outriggers, for mobile cranes
23/348	. . . . . {the erection being operated by jacks}	23/80	. . . . hydraulically actuated
23/36	. . mounted on road or rail vehicles; Manually-movable jib-cranes for use in workshops; Floating cranes (with pneumatic or hydraulic motors <a href="#">B66C 23/54</a> ; vehicle or ship aspects <a href="#">B60</a> - <a href="#">B63</a> )	23/82	. . Luffing gear
23/365	. . . {dismantable into smaller units for transport purposes}	23/821	. . . {Bracing equipment for booms}
23/38	. . . with separate prime movers for crane and vehicle	23/823	. . . . {Bracing equipment acting in vertical direction}
23/40	. . . with a single prime mover for both crane and vehicle	23/825	. . . . {Bracing equipment acting in horizontal direction}
23/42	. . . with jibs of adjustable configuration, e.g. foldable	23/826	. . . . {Bracing equipment acting at an inclined angle to vertical and horizontal directions}
23/44	. . . Jib-cranes adapted for attachment to standard vehicles, e.g. agricultural tractors	23/828	. . . . . {where the angle is adjustable}
23/46	. . . Mobile jib-cranes with non-sleuable jibs	23/84	. . Slewing gear (anti-friction bearings <a href="#">F16C</a> )
23/48	. . . Manually-movable jib cranes for use in workshops	23/86	. . . hydraulically actuated
23/485	. . . . {for lifting and moving engines, e.g. car or aero engines or parts thereof}	23/88	. Safety gear (for cranes in general <a href="#">B66C 15/00</a> ; for rope, cable, or chain winding mechanisms <a href="#">B66D 1/54</a> )
23/50	. . . mounted on railway vehicles, e.g. breakdown cranes	23/90	. . Devices for indicating or limiting lifting moment
23/52	. . . Floating cranes (floating dredgers <a href="#">E02F</a> )	23/905	. . . {electrical}
23/525	. . . . {Double slewing cranes on ships}	23/92	. . Snubbers or dashpots for preventing backwards swinging of jibs, e.g. in the event of cable or tackle breakage
23/53	. . . . including counterweight or means to compensate for list, trim, or skew of the vessel or platform (counterweights or supports for balancing lifting couples <a href="#">B66C 23/72</a> ; equipment to decrease unwanted vessel movements <a href="#">B63B 39/00</a> )	23/94	. . for limiting slewing movements
23/54	. . {with pneumatic or hydraulic motors, e.g. for actuating jib-cranes on tractors}	<b>25/00</b>	<b>Cranes not provided for in groups <a href="#">B66C 17/00</a> - <a href="#">B66C 23/00</a></b>
23/545	. . {with arrangements for avoiding dead centre problems during cylinder motion}		
23/58	. arranged to carry out a desired sequence of operations automatically, e.g. hoisting followed by luffing and slewing		
23/585	. . {electrical}		
23/60	. Derricks		
23/605	. . {employing ships' masts ( <a href="#">B66C 23/525</a> takes precedence)}		
23/62	. Constructional features or details (of dredgers <a href="#">E02F</a> )		
23/64	. . Jibs		
23/66	. . . Outer or upper end constructions		
23/68	. . . foldable or otherwise adjustable in configuration		
23/70	. . . constructed of sections adapted to be assembled to form jibs or various lengths		
23/701	. . . . {telescopic}		
23/702	. . . . . {with a jib extension boom}		

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<b>2700/00</b>	<b>Cranes</b>
2700/01	. General aspects of mobile cranes, overhead travelling cranes, gantry cranes, loading bridges, cranes for building ships on slipways, cranes for foundries or cranes for public works
2700/011	. . Cable cranes
2700/012	. . Trolleys or runways
2700/014	. . . Devices for trolleys running on monorails
2700/015	. . . . Arrangements which are easily displaceable or dismountable
2700/017	. . . Installations characterised by their destination or by the load-engaging element for as far as the trolley is essential
2700/018	. . . Construction details related to the trolley movement
2700/03	. Cranes with arms or jibs; Multiple cranes
2700/0307	. . Cranes in which it is essential that the load is moving horizontally during the luffing movement of the arm or jib
2700/0314	. . . in combination with the movement of the counterweight
2700/0321	. . Travelling cranes
2700/0328	. . . Cranes on rails or on rail vehicles
2700/0335	. . . . with a slewing arm
2700/0342	. . . . . on a turntable

- 2700/035 . . . . Construction details related to the travelling, to the supporting of the crane or to the blocking of the axles; Outriggers; Coupling of the travelling mechanism to the crane mechanism
- 2700/0357 . . . Cranes on road or off-road vehicles, on trailers or towed vehicles; Cranes on wheels or crane-trucks
- 2700/0364 . . . . with a slewing arm
- 2700/0371 . . . . . on a turntable
- 2700/0378 . . . . Construction details related to the travelling, to the supporting of the crane or to the blocking of the axles; Outriggers; Coupling of the travelling mechanism to the crane mechanism
- 2700/0385 . . Cranes with trolleys movable along adjustable or slewable arms
- 2700/0392 . . Movement of the crane arm; Coupling of the crane arm with the counterweights; Safety devices for the movement of the arm
- 2700/06 . Cranes in which the lifting movement is done with a hydraulically controlled plunger
- 2700/062 . . mounted on motor vehicles
- 2700/065 . . . with a slewable jib
- 2700/067 . . . . on a turntable
- 2700/08 . Electrical assemblies or electrical control devices for cranes, winches, capstans or electrical hoists
- 2700/081 . . with ac motors
- 2700/082 . . Control of the secondary movements, e.g. travelling, slewing, luffing of the jib, changing of the range
- 2700/084 . . Protection measures
- 2700/085 . . Control actuators
- 2700/087 . . Electrical assemblies or electrical control devices for electrically actuated grabs
- 2700/088 . . Remote control of electric cranes