

CPC COOPERATIVE PATENT CLASSIFICATION

B66F **HOISTING, LIFTING, HAULING OR PUSHING, NOT OTHERWISE PROVIDED FOR, e.g. DEVICES WHICH APPLY A LIFTING OR PUSHING FORCE DIRECTLY TO THE SURFACE OF A LOAD** ({invalid lifting devices [A61G 7/10](#); } mounting artificial islands on piles or like supports [E02B 17/00](#) : scaffolding combined with lifting devices [E04G 1/22](#); lifting devices for sliding forms [E04G 11/24](#); lifting of buildings [E04G 23/06](#); shores or struts [E04G 25/00](#); lifts or other hoisting devices on ladders [E06C 7/12](#); props for mining [E21D 15/00](#))

WARNING

The following IPC groups are not used in the CPC scheme. Subject matter covered by these groups is classified in the following CPC groups:

[B66F 19/02](#)

covered by

[B66F 19/00](#)

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|-------------|---|-------------|--|
| 1/00 | Devices, e.g. jacks, for lifting loads in predetermined steps | 3/35 | . . . Inflatable flexible elements, e.g. bellows (inflatable load-engaging elements B66F 3/40 ; connection of valves to inflatable elastic bodies B60C 29/00) |
| 1/02 | . with locking elements, e.g. washers, co-operating with posts | | |
| 1/025 | . . {the devices being operated by fluid pressure (B66F 1/08 takes precedence)} | 3/36 | . . . Load-engaging elements |
| 1/04 | . . the posts being toothed | 3/38 | . . . adjustable relative to piston |
| 1/06 | . . . and the devices being actuated mechanically | 3/40 | . . . inflatable (connection of valves to inflatable elastic bodies B60C 29/00) |
| 1/08 | . . . and the devices being operated by fluid pressure | 3/42 | . . . with self-contained pumps, e.g. actuated by hand |
| 3/00 | Devices, e.g. jacks, adapted for uninterrupted lifting of loads (mobile jacks of the garage type B66F 5/00) | 3/43 | . . Pyrotechnical jacks |
| 3/005 | . {with rocking arm or sector} | 3/44 | . with self-contained electric driving motors |
| 3/02 | . with racks actuated by pinions | 3/46 | . Combinations of several jacks with means for interrelating lifting or lowering movements |
| 3/04 | . . with several racks | 5/00 | Mobile jacks of the garage type mounted on wheels or rollers |
| 3/06 | . . with racks comprising pivotable toothed sections or segments, e.g. arranged in pairs | 5/02 | . with mechanical lifting gear |
| 3/08 | . screw operated (B66F 3/44 takes precedence; gearings F16H) | 5/025 | . . {screw-actuated} |
| 3/10 | . . with telescopic sleeves | 5/04 | . with fluid-pressure-operated lifting gear |
| 3/12 | . . comprising toggle levers (lazy-tongs mechanisms B66F 3/22) | 7/00 | Lifting frames, e.g. for lifting vehicles; Platform lifts ({B66F 11/04 takes precedence } ; for lift-truck platform B66F 9/06) |
| 3/14 | . . actuated through pawl-and-ratchet mechanisms | 7/02 | . with platforms suspended from ropes, cables, or chains {or screws and movable along pillars} |
| 3/16 | . . actuated through bevel-wheel gearings | 7/025 | . . {screw operated} |
| 3/18 | . . actuated through worm gearings | 7/04 | . . hydraulically or pneumatically operated |
| 3/20 | . . actuated through multiple or change-speed gearings | 7/06 | . with platforms supported by levers for vertical movement |
| 3/22 | . Lazy-tongs mechanisms ({ B66F 11/042 takes precedence}) | 7/0608 | . . {driven by screw or spindle} |
| 3/24 | . fluid-pressure operated (water-pressure machines F03B ; hydraulic gearings F16H ; cylinders, pistons F16J ; fluid-pressure servomotors F15B) | 7/0616 | . . {Suspended platforms, i.e. the load platform hangs from the base} |
| 3/242 | . . {suspended jacks} | 7/0625 | . . {with wheels for moving around the floor} |
| 3/245 | . . {comprising toggle levers (lazy-tongs mechanisms B66F 3/22)} | 7/0633 | . . {Mechanical arrangements not covered by the following subgroups} |
| 3/247 | . . {pneumatically actuated (B66F 3/35 takes precedence)} | 7/0641 | . . {Single levers, e.g. parallel links} |
| 3/25 | . . Constructional features | 7/065 | . . {Scissor linkages, i.e. X-configuration} |
| 3/26 | . . . Adaptations or arrangements of pistons | 7/0658 | . . . {Multiple scissor linkages horizontally arranged} |
| 3/28 | telescopic | 7/0666 | . . . {Multiple scissor linkages vertically arranged} |
| 3/30 | . . . with positive brakes or lock | 7/0675 | {Auxiliary scissors, e.g. above main scissors} |
| 3/32 | . . . with means for avoiding excessive shocks on completion of movements | 7/0683 | {Scissor linkage plus tilting action} |
| | | 7/0691 | . . {Asymmetric linkages, i.e. Y-configuration} |
| | | 7/08 | . . hydraulically or pneumatically operated |
| | | 7/085 | . . . {pneumatically operated} |

- 7/10 . with platforms supported directly by jacks
- 7/12 . . by mechanical jacks
- 7/14 . . . screw operated
- 7/16 . . by one or more hydraulic or pneumatic jacks
- 7/18 . . . by a single central jack
- 7/20 . . . by several jacks with means for maintaining the platforms horizontal during movement
- 7/22 . with tiltable platforms ([tilting vehicles for unloading B65G 67/34](#))
- 7/24 . for raising or lowering vehicles by their own power
- 7/243 . . {Ramps}
- 7/246 . . {Wheel supporting trolleys}
- 7/26 . for selective lifting of parts of vehicles ([mobile garage jacks B66F 5/00](#))
- 7/28 . Constructional details, e.g. end stops, pivoting supporting members, sliding runners adjustable to load dimensions
- 9/00 Devices for lifting or lowering bulky or heavy goods for loading or unloading purposes ([mobile or transportable lifts in, or associated with, buildings and specially adapted to be shifted from one part of a building or other structure to another part or to another building or structure B66B 9/16; cranes B66C](#))**
- 9/02 . Stationary loaders or unloaders, e.g. for sacks
- 9/04 . . hydraulically actuated or controlled
- 9/06 . movable, with their loads, on wheels or the like, e.g. fork-lift trucks ([vehicle aspects B60 - B62; vehicles predominantly for transporting loads and modified to facilitate loading or unloading B60P 1/00; low-lift hand trucks for transporting goods B62B 3/06](#))
- 9/061 . . {characterised by having a lifting jib}
- 9/063 . . {Automatically guided}
- 9/065 . . non-masted ([mobile jacks of the garage type mounted on wheels or rollers B66F 5/00](#))
- 9/0655 . . . {with a telescopic boom}
- 9/07 . . Floor-to-roof stacking devices, e.g. "stacker cranes", "retrievers"
- 9/072 . . . {Travelling gear therefor}
- 9/075 . . Constructional features or details
- 9/07504 . . . {Accessories, e.g. for towing, charging, locking}
- 9/07509 . . . {Braking}
- 9/07513 . . . {Details concerning the chassis}
- 9/07518 {Fuel or oil tank arrangements}
- 9/07522 {Variable length or width chassis}
- 9/07527 {Covers for, e.g. engines or batteries}
- 9/07531 {Battery compartments}
- 9/07536 {Battery stoppers, i.e. means to hold battery in position}
- 9/0754 {Battery removal arrangements}
- 9/07545 . . . {Overhead guards}
- 9/0755 . . . {Position control; Position detectors}
- 9/07554 . . . {Counterweights}
- 9/07559 . . . {Stabilizing means}
- 9/07563 . . . {Fork-lift trucks adapted to be carried by transport vehicles}
- 9/07568 . . . {Steering arrangements}
- 9/07572 . . . {Propulsion arrangements}
- 9/07577 {not supported by wheels, e.g. tracks or air cushions}
- 9/07581 . . . {Remote controls}
- 9/07586 {Suspension or mounting of wheels on chassis}
- 9/0759 {Details of operating station, e.g. seats, levers, operator platforms, cabin suspension}
- 9/07595 {Cooling arrangements for device or operator}
- 9/08 Masts; Guides; Chains
- 9/082 {inclunable}
- 9/085 {Multiple forks, i.e. more than one pair mounted on a single mast or with more than one mast}
- 9/087 {Monomasts}
- 9/10 movable in a horizontal direction relative to truck
- 9/105 {Articulated, i.e. front chassis with wheels and mast rotatable relative to rear chassis with wheels}
- 9/12 Platforms; Forks; Other load supporting or gripping members
- 9/122 {longitudinally movable}
- 9/125 {rotatable about a longitudinal axis}
- 9/127 {Working platforms}
- 9/14 laterally movable, e.g. swingable, for slewing or transverse movements
- 9/141 {with shuttle-type movement}
- 9/142 {Movements of forks either individually or relative to each other}
- 9/143 {Movements of forks relative to each other - symmetric}
- 9/144 {Movements of forks relative to each other - independent}
- 9/145 {Rotation of fork around vertical axis}
- 9/146 {Side shift, i.e. both forks move together sideways relative to fork support}
- 9/147 {Whole unit including fork support moves relative to mast}
- 9/148 {Whole unit including fork support moves sideways}
- 9/149 {Whole unit including fork support rotates}
- 9/16 inclinable relative to mast
- 9/165 {Foldable forks, i.e. where only the horizontal section moves}
- 9/18 Load gripping or retaining means
- 9/181 {by suction means}
- 9/182 {by magnetic means}
- 9/183 {Coplanar side clamps}
- 9/184 {Roll clamps}
- 9/185 {by internally expanding grippers}
- 9/186 {Container lifting frames}
- 9/187 {Drum lifting devices}
- 9/188 {Stacked-bricks lifting devices}
- 9/19 Additional means for facilitating unloading
- 9/195 {for pushing the load}
- 9/20 Means for actuating or controlling masts, platforms, or forks ([power take-off from vehicle transmissions, combined with vehicle propulsion systems B60K](#))
- 9/205 {Arrangements for transmitting pneumatic, hydraulic or electric power to movable parts or devices ([for cranes B66C 13/12](#))}
- 9/22 Hydraulic devices or systems
- 9/24 Electrical devices or systems

- 11/00 Lifting devices specially adapted for particular uses not otherwise provided for** ([ground-engaging vehicle fittings for supporting, lifting or manoeuvring the vehicle B60S 9/00](#))
- 11/04 . for movable platforms or cabins, e.g. on vehicles, permitting workmen to place themselves in any desired position for carrying out required operations ([Working platforms on fork-lift trucks B66F 9/127](#); [vehicle aspects of service vehicles B60P 3/14](#); [platforms for cleaning windows A47L 3/02](#); [devices for rescuing persons from buildings A62B 1/02](#); [liftable or lowerable platforms for use on ladders E06C 7/16](#); [maintenance travellers for bridges E01D 19/10](#); [scaffolds on an extensible sub-structure E04G 1/22](#))
 - 11/042 . . [{actuated by lazy-tongs mechanisms or articulated levers}](#)
 - 11/044 . . [{Working platforms suspended from booms}](#)
 - 11/046 . . . [{of the telescoping type}](#)
 - 11/048 . . [{Mobile camera platform}](#)
- 13/00 Common constructional features or accessories**
- 13/005 . [{Thrust chain devices}](#)
- 15/00 Crowbars or levers**
- 17/00 Safety devices, e.g. for limiting or indicating lifting force**
- 17/003 . [{for fork-lift trucks}](#)
 - 17/006 . [{for working platforms}](#)
- 19/00 Hoisting, lifting, hauling or pushing, not otherwise provided for**
- 19/005 . [{Lifting devices for manhole covers}](#)
- 2700/00 Lifting apparatus**
- 2700/02 . Lifting devices with a toothed post and pawl latch or with a post and locking elements
 - 2700/025 . . with a post and locking elements
 - 2700/03 . Lifting jacks with pinion and rack
 - 2700/04 . Jacks with screw and nut
 - 2700/05 . Hydraulic jacks
 - 2700/052 . . Support- or transmission members
 - 2700/055 . . Jacks with a single cylinder
 - 2700/057 . . . Pistons, e.g. telescopic; Cylinders or sealing joints; Hydraulic travel-limiting devices or shock damping
 - 2700/07 . Lifting devices actuated by the driving force of water
 - 2700/09 . Other lifting devices
 - 2700/12 . Lifting platforms for vehicles or motorcycles or similar lifting apparatus
 - 2700/123 . . Details concerning the support members or devices not related to the lifting itself
 - 2700/126 . . Arrangements in which the platform is fixed to the upper end of a single or plural jacks