COOPERATIVE PATENT CLASSIFICATION

B PERFORMING OPERATIONS; TRANSPORTING

(NOTES omitted)

TRANSPORTING

B66 HOISTING; LIFTING; HAULING

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)

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:

   B66F 19/02 covered by B66F 19/00

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

1/00 Devices, e.g. jacks, for lifting loads in predetermined steps

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)]

1/04 . . . the posts being toothed

1/06 . . . and the devices being acted upon mechanically

1/08 . . . and the devices being operated by fluid pressure

3/00 Devices, e.g. jacks, adapted for uninterrupted lifting of loads (mobile jacks of the garage type B66F 5/00)

3/005 . . . [with rocking arm or sector]

3/02 . . . with racks actuated by pinions

3/04 . . . with several racks

3/06 . . . with racks comprising pivotal toothed sections or segments, e.g. arranged in pairs

3/08 . . . screw operated (B66F 3/44 takes precedence; gearings F16H)

3/10 . . . with telescopic sleeves

3/12 . . . comprising toggle levers (lazy-tongs mechanisms B66F 3/22)

3/14 . . . acted through pawl-and-ratchet mechanisms

3/16 . . . acted through bevel-wheel gearings

3/18 . . . acted through worm gearings

3/20 . . . acted through multiple or change-speed gearings

3/22 . . Lazy-tongs mechanisms (B66F 11/042 takes precedence)

3/24 . . fluid-pressure operated (water-pressure machines F03B; hydraulic gearings F16H; cylinders, pistons F16G; fluid-pressure servomotors F15B)

3/242 . . [suspended jacks]

3/245 . . . [comprising toggle levers (lazy-tongs mechanisms B66F 3/22)]

3/247 . . . (pneumatically actuated (B66F 3/35 takes precedence))

3/25 . . . Constructional features

3/26 . . . Adaptations or arrangements of pistons

3/28 . . . . telescopic

3/30 . . . with positive brakes or locks

3/32 . . . with means for avoiding excessive shocks on completion of movements

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)

3/36 . . . Load-engaging elements

3/38 . . . . adjustable relative to piston

3/40 . . . . inflatable (connection of valves to inflatable elastic bodies B60C 29/00)

3/42 . . . . with self-contained pumps, e.g. actuated by hand

3/43 . . . Pyrotechnical jacks

3/44 . . . with self-contained electric driving motors

3/46 . . . Combinations of several jacks with means for interrelating lifting or lowering movements

5/00 Mobile jacks of the garage type mounted on wheels or rollers

5/02 . . with mechanical lifting gear

5/025 . . . [screw-actuated]

5/04 . . with fluid-pressure-operated lifting gear

7/00 Lifting frames, e.g. for lifting vehicles; Platform lifts (B66F 11/04 takes precedence); for lift-truck platform B66F 9/06

7/02 . . with platforms suspended from ropes, cables, or chains {or screws and movable along pillars}
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)

9/00

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 B66P 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 . [inclining]

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