

SECTION B — PERFORMING OPERATIONS; TRANSPORTING

B66 HOISTING; LIFTING; HAULING

B66D CAPSTANS; WINCHES; TACKLES, e.g. PULLEY BLOCKS; HOISTS (winding or unwinding ropes or cables for feeding or storage purposes B65H; rope or cable-winding or unwinding mechanisms for lifts B66B; hoisting devices specially adapted for suspended scaffolds E04G 3/32)

Note(s)

This subclass covers:

- rope, cable, or chain winding or unwinding mechanisms for moving all loads except lift cages, e.g. winches for dredges;
 - braking or detent devices characterised by their application for retarding, or preventing, rotary movement of a winding drum or barrel.
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|-------------|--|-------------|---------|---|
| 1/00 | Rope, cable, or chain winding mechanisms; Capstans
(portable or mobile lifting or hauling appliances
B66D 3/00) | 1/50 | • • • • | for maintaining predetermined rope, cable, or chain tension, e.g. in ropes or cables for towing craft, in chains for anchors; Warping or mooring winch-cable tension control |
| 1/02 | • Driving gear | | | |
| 1/04 | • • manually operated | 1/52 | • • • • | for varying rope or cable tension, e.g. when recovering craft from water |
| 1/06 | • • • Safety cranks for preventing unwanted crank rotation and subsequent lowering of the loads | 1/54 | • | Safety gear |
| 1/08 | • • incorporating fluid motors | 1/56 | • • | Adaptations of limit switches |
| 1/10 | • • • Steam driving gear | 1/58 | • • | responsive to excess of load |
| 1/12 | • • incorporating electric motors | 1/60 | • | adapted for special purposes |
| 1/14 | • • Power transmissions between power sources and drums or barrels | 1/62 | • • | for actuating grab buckets (electrical control in cranes B66C 13/32) |
| 1/16 | • • • the drums or barrels being freely rotatable (B66D 1/24 takes precedence) | 1/64 | • • • | by means of a single rope or chain |
| 1/18 | • • • • and the power being transmitted from a continuously-operating and irreversible prime mover | 1/66 | • • • | driven by a single motor |
| | | 1/68 | • • • | driven by two motors |
| 1/20 | • • • Chain, belt, or friction drives, e.g. incorporating sheaves | 1/70 | • • • | driven through planetary or differential gearings |
| 1/22 | • • • Planetary or differential gearings (for actuating grab buckets B66D 1/70) | 1/72 | • • | Anchor-chain sprockets; Anchor capstans |
| 1/24 | • • • for varying speed, or reversing direction of rotation, of drums or barrels | 1/74 | • • | Capstans |
| 1/26 | • having several drums or barrels | 1/76 | • • • | having auxiliary drums or barrels for storing the ropes or cables |
| 1/28 | • Other constructional details | 1/78 | • • • | for shunting, e.g. in marshalling yards |
| 1/30 | • • Rope, cable, or chain drums or barrels | 1/80 | • • | for scrapers |
| 1/34 | • • • Attachment of ropes or cables to drums or barrels | 1/82 | • • | for slewing and hoisting by means of derricks |
| 1/36 | • • Guiding, or otherwise ensuring winding in an orderly manner, of ropes, cables, or chains | 3/00 | | Portable or mobile lifting or hauling appliances |
| 1/38 | • • • by means of guides movable relative to drum or barrel (B66D 1/395 takes precedence) [3] | 3/02 | • | Manually-operated, e.g. lever-actuated, devices operating on ropes, cables, or chains for hauling in a mainly horizontal direction (B66D 3/04, B66D 3/12 take precedence) |
| 1/39 | • • • by means of axially-movable drums or barrels (B66D 1/395 takes precedence) [3] | 3/04 | • | Pulley blocks or like devices in which force is applied to a rope, cable or chain, which passes over one or more pulleys, e.g. to obtain mechanical advantage (sheaves, chain wheels, pulleys F16H 55/00) [4] |
| 1/395 | • • • by means effecting both guiding and tensioning of ropes, cables or chains [3] | 3/06 | • • | with more than one pulley |
| 1/40 | • • Control devices | 3/08 | • • • | Arrangements of sheaves |
| 1/42 | • • • non-automatic | 3/10 | • • • | Applications of braking or detent devices |
| 1/44 | • • • • pneumatic or hydraulic | 3/12 | • | Chain or like hand-operated tackles with or without power-transmission gearing between operating member and lifting rope, chain, or cable |
| 1/46 | • • • • electric | | | |
| 1/48 | • • • • automatic | 3/14 | • • | lever-operated |
| | | 3/16 | • • | operated by an endless chain passing over a pulley or a sprocket |

B66D

- 3/18 • Power-operated hoists
- 3/20 • • with driving motor, e.g. electric motor, and drum or barrel contained in a common housing
- 3/22 • • • with variable-speed gearing between driving motor and drum or barrel
- 3/24 • • Applications of limit switches
- 3/26 • • Other details, e.g. housings

- 5/00 Braking or detent devices characterised by their application to lifting or hoisting gear, e.g. for controlling the lowering of loads (for pulley blocks B66D 3/10)**
- 5/02 • Crane, lift, hoist, or winch brakes operating on drums, barrels, or ropes
- 5/04 • • actuated by centrifugal force
- 5/06 • • with radial effect (B66D 5/20 takes precedence)
- 5/08 • • • embodying blocks or shoes

- 5/10 • • • embodying bands
- 5/12 • • with axial effect (B66D 5/22 takes precedence)
- 5/14 • • • embodying discs
- 5/16 • • for action on ropes or cables
- 5/18 • • for generating braking forces which are proportional to the loads suspended; Load-actuated brakes

- 5/20 • • • with radial effect
- 5/22 • • • with axial effect
- 5/24 • • Operating devices
- 5/26 • • • pneumatic or hydraulic
- 5/28 • • • specially adapted for winding gear, e.g. in mining hoists

- 5/30 • • • electrical
- 5/32 • Detent devices
- 5/34 • • having latches