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.

1/00 Rope, cable, or chain winding mechanisms; Capstans (portable or mobile lifting or hauling appliances B66D 3/00)

1/02 • Driving gear
1/04 • • manually operated
1/06 • • • Safety cranks for preventing unwanted crank rotation and subsequent lowering of the loads
1/08 • • incorporating fluid motors
1/10 • • • Steam driving gear
1/12 • • incorporating electric motors
1/14 • • Power transmissions between power sources and drums or barrels
1/16 • • • the drums or barrels being freely rotatable (B66D 1/24 takes precedence)
1/18 • • • • and the power being transmitted from a continuously-operating and irreversible prime mover
1/20 • • • Chain, belt, or friction drives, e.g. incorporating sheaves
1/22 • • • Planetary or differential gearings (for actuating grab buckets B66D 1/70)
1/24 • • • for varying speed, or reversing direction of rotation, of drums or barrels
1/26 • having several drums or barrels
1/28 • Other constructional details
1/30 • • Rope, cable, or chain drums or barrels
1/34 • • • Attachment of ropes or cables to drums or barrels
1/36 • • Guiding, or otherwise ensuring winding in an orderly manner, of ropes, cables, or chains
1/38 • • • by means of guides movable relative to drum or barrel (B66D 1/395 takes precedence) **[3]**
1/39 • • • by means of axially-movable drums or barrels (B66D 1/395 takes precedence) **[3]**
1/395 • • • by means effecting both guiding and tensioning of ropes, cables or chains **[3]**
1/40 • • Control devices
1/42 • • • non-automatic
1/44 • • • • pneumatic or hydraulic
1/46 • • • • electric
1/48 • • • automatic
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
1/52 • • • • for varying rope or cable tension, e.g. when recovering craft from water
1/54 • Safety gear
1/56 • • Adaptations of limit switches
1/58 • • responsive to excess of load
1/60 • adapted for special purposes
1/62 • • for actuating grab buckets (electrical control in cranes B66C 13/32)
1/64 • • • by means of a single rope or chain
1/66 • • • driven by a single motor
1/68 • • • driven by two motors
1/70 • • • driven through planetary or differential gearings
1/72 • • Anchor-chain sprockets; Anchor capstans
1/74 • • Capstans
1/76 • • • having auxiliary drums or barrels for storing the ropes or cables
1/78 • • • for shunting, e.g. in marshalling yards
1/80 • • for scrapers
1/82 • • for slewing and hoisting by means of derricks

3/00 Portable or mobile lifting or hauling appliances

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)
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]**
3/06 • • with more than one pulley
3/08 • • • Arrangements of sheaves
3/10 • • • Applications of braking or detent devices
3/12 • Chain or like hand-operated tackles with or without power-transmission gearing between operating member and lifting rope, chain, or cable
3/14 • • lever-operated
3/16 • • operated by an endless chain passing over a pulley or a sprocket

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