

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)

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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| <p>1/00 Rope, cable, or chain winding mechanisms; Capstans
(portable or mobile lifting or hauling appliances
B66D 3/00)</p> <p>1/02 . Driving gear</p> <p>1/04 . . manually operated</p> <p>1/06 . . . Safety cranks for preventing unwanted crank
rotation and subsequent lowering of the loads</p> <p>1/08 . . incorporating fluid motors</p> <p>1/10 . . . Steam driving gear</p> <p>1/12 . . incorporating electric motors</p> <p>1/14 . . Power transmissions between power sources and
drums or barrels</p> <p>1/16 . . . the drums or barrels being freely rotatable
(B66D 1/24 takes precedence)</p> <p>1/18 and the power being transmitted from a
continuously-operating and irreversible
prime mover</p> <p>1/20 . . . Chain, belt, or friction drives, e.g. incorporating
sheaves</p> <p>1/22 . . . Planetary or differential gearings (for actuating
grab buckets B66D 1/70)</p> <p>1/24 . . . for varying speed, or reversing direction of
rotation, of drums or barrels</p> <p>1/26 . having several drums or barrels</p> <p>1/28 . Other constructional details</p> <p>1/30 . . Rope, cable, or chain drums or barrels</p> <p>1/34 . . . Attachment of ropes or cables to drums or
barrels</p> <p>1/36 . . Guiding, or otherwise ensuring winding in an
orderly manner, of ropes, cables, or chains</p> <p>1/38 . . . by means of guides movable relative to drum or
barrel (B66D 1/395 takes precedence) [3]</p> <p>1/39 . . . by means of axially-movable drums or barrels
(B66D 1/395 takes precedence) [3]</p> <p>1/395 . . . by means effecting both guiding and tensioning
of ropes, cables or chains [3]</p> <p>1/40 . . Control devices</p> <p>1/42 . . . non-automatic</p> <p>1/44 pneumatic or hydraulic</p> <p>1/46 electric</p> <p>1/48 . . . automatic</p> <p>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</p> <p>1/52 for varying rope or cable tension, e.g. when
recovering craft from water</p> <p>1/54 . Safety gear</p> <p>1/56 . . Adaptations of limit switches</p> <p>1/58 . . responsive to excess of load</p> | <p>1/60 . adapted for special purposes</p> <p>1/62 . . for actuating grab buckets (electrical control in
cranes B66C 13/32)</p> <p>1/64 . . . by means of a single rope or chain</p> <p>1/66 . . . driven by a single motor</p> <p>1/68 . . . driven by two motors</p> <p>1/70 . . . driven through planetary or differential
gearings</p> <p>1/72 . . Anchor-chain sprockets; Anchor capstans</p> <p>1/74 . . Capstans</p> <p>1/76 . . . having auxiliary drums or barrels for storing the
ropes or cables</p> <p>1/78 . . . for shunting, e.g. in marshalling yards</p> <p>1/80 . . for scrapers</p> <p>1/82 . . for slewing and hoisting by means of derricks</p> <p>3/00 Portable or mobile lifting or hauling appliances</p> <p>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)</p> <p>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]</p> <p>3/06 . . with more than one pulley</p> <p>3/08 . . . Arrangements of sheaves</p> <p>3/10 . . . Applications of braking or detent devices</p> <p>3/12 . Chain or like hand-operated tackles with or without
power-transmission gearing between operating
member and lifting rope, chain, or cable</p> <p>3/14 . . lever-operated</p> <p>3/16 . . operated by an endless chain passing over a pulley
or a sprocket</p> <p>3/18 . Power-operated hoists</p> <p>3/20 . . with driving motor, e.g. electric motor, and drum
or barrel contained in a common housing</p> <p>3/22 . . . with variable-speed gearing between driving
motor and drum or barrel</p> <p>3/24 . . Applications of limit switches</p> <p>3/26 . . Other details, e.g. housings</p> <p>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)</p> <p>5/02 . Crane, lift, hoist, or winch brakes operating on
drums, barrels, or ropes</p> <p>5/04 . . actuated by centrifugal force</p> <p>5/06 . . with radial effect (B66D 5/20 takes precedence)</p> |
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| 5/08 | . . . | embodying blocks or shoes | 5/22 | . . . | with axial effect |
| 5/10 | . . . | embodying bands | 5/24 | . . | Operating devices |
| 5/12 | . . | with axial effect (B66D 5/22 takes precedence) | 5/26 | . . . | pneumatic or hydraulic |
| 5/14 | . . . | embodying discs | 5/28 | | specialy adapted for winding gear, e.g. in
mining hoists |
| 5/16 | . . | for action on ropes or cables | 5/30 | . . . | electrical |
| 5/18 | . . | for generating braking forces which are
proportional to the loads suspended; Load-
actuated brakes | 5/32 | . . | Detent devices |
| 5/20 | . . . | with radial effect | 5/34 | . . | having latches |