

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)	1/50	• • • •	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	1/52	• • • •	for varying rope or cable tension, e.g. when recovering craft from water
1/04	• • manually operated	1/54	•	Safety gear
1/06	• • • Safety cranks for preventing unwanted crank rotation and subsequent lowering of the loads	1/56	• •	Adaptations of limit switches
1/08	• • incorporating fluid motors	1/58	• •	responsive to excess of load
1/10	• • • Steam driving gear	1/60	•	adapted for special purposes
1/12	• • incorporating electric motors	1/62	• •	for actuating grab buckets (electrical control in cranes B66C 13/32)
1/14	• • Power transmissions between power sources and drums or barrels	1/64	• • •	by means of a single rope or chain
1/16	• • • the drums or barrels being freely rotatable (B66D 1/24 takes precedence)	1/66	• • •	driven by a single motor
1/18	• • • • and the power being transmitted from a continuously-operating and irreversible prime mover	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	3/14	• •	lever-operated
1/48	• • • • automatic	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