

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

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

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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	. . . specially 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