Symbol	Typ	Titel
B	**Sektion**	**SECTION B — PERFORMING OPERATIONS; TRANSPORTING**
B63	**Klasse**	**SHIPS OR OTHER WATERBORNE VESSELS; RELATED EQUIPMENT**
B63H	**Unterklasse**	**MARINE PROPULSION OR STEERING (peculiar to submarines, other than nuclear propulsion, B63G; peculiar to torpedoes F42B 19/00)**
B63H 1/00	**Hauptgruppe**	**Propulsive elements directly acting on water (jet propulsion B63H 11/00; attachment of propellers on shafts B63H 23/34)**
B63H 1/02	1-Punkt Untergruppe	. of rotary type (endless-track type B63H 1/34)
B63H 1/04	2-Punkt Untergruppe	. . with rotation axis substantially at right angles to propulsive direction, e.g. paddle wheels
B63H 1/06	3-Punkt Untergruppe	. . . with adjustable vanes or blades
B63H 1/08	4-Punkt Untergruppe	. . . . with cyclic adjustment
B63H 1/10	5-Punkt Untergruppe	. . . . . with blades extending axially from a disc-shaped rotary body
B63H 1/12	2-Punkt Untergruppe	. . with rotation axis substantially in propulsive direction
B63H 1/14	3-Punkt Untergruppe	. . . Propellers (pitch changing B63H 3/00)
B63H 1/15	4-Punkt Untergruppe	. . . . having vibration damping means (anti-vibration mounting of propulsion plant B63H 21/30; means for damping vibration in general F16F) [4]
B63H 1/16	4-Punkt Untergruppe	. . . . having a shrouding ring attached to blades
B63H 1/18	4-Punkt Untergruppe	. . . . with means for diminishing cavitation, e.g. supercavitation
B63H 1/20	4-Punkt Untergruppe	. . . . Hubs; Blade connections
B63H 1/22	5-Punkt Untergruppe	. . . . . the blades being foldable
B63H 1/24	6-Punkt Untergruppe	. . . . . automatically foldable or unfoldable
B63H 1/26	4-Punkt Untergruppe	. . . . Blades
B63H 1/28	4-Punkt Untergruppe	. . . . Other means for improving propeller efficiency (water-guiding elements formed by shape of hull B63H 5/00)
B63H 1/30	1-Punkt Untergruppe	. of non-rotary type
B63H 1/32	2-Punkt Untergruppe	. . Flaps, pistons, or the like, reciprocating in propulsive direction
B63H 1/34	2-Punkt Untergruppe	. . of endless-track type
B63H 1/36	2-Punkt Untergruppe	. . Swinging flaps, e.g. fishtail type [4]
B63H 1/37	2-Punkt Untergruppe	. . Moving-wave propellers, i.e. wherein the propelling means comprise a flexible undulating structure [4]
B63H 1/38	1-Punkt Untergruppe	. characterised solely by flotation properties, e.g. drums
B63H 3/00	**Hauptgruppe**	**Propeller-blade pitch changing**
B63H 3/02	1-Punkt Untergruppe	. actuated by control element coaxial with propeller shaft, e.g. the control element being rotary
B63H 3/04	2-Punkt Untergruppe	. . the control element being reciprocatable
B63H 3/06	1-Punkt Untergruppe	. characterised by use of non-mechanical actuating means, e.g. electrical
B63H 3/08	2-Punkt Untergruppe	. . fluid

Symbol	Typ	Titel
B63H 3/10	1-Punkt Untergruppe	. characterised by having pitch control conjoint with propulsion-plant control
B63H 3/12	1-Punkt Untergruppe	. the pitch being adjustable only when propeller is stationary
B63H 5/00	**Hauptgruppe**	**Arrangements on vessels of propulsion elements directly acting on water**
B63H 5/02	1-Punkt Untergruppe	. of paddle wheels, e.g. of stern wheels
B63H 5/03	2-Punkt Untergruppe	. . movably mounted with respect to the hull, e.g. having means to reposition paddle wheel assembly, or to retract paddle or to change paddle attitude [4]
B63H 5/04	2-Punkt Untergruppe	. . with stationary water-guiding elements
B63H 5/07	1-Punkt Untergruppe	. of propellers (forming part of outboard propulsion units B63H 20/00) [6]
B63H 5/08	2-Punkt Untergruppe	. . of more than one propeller
B63H 5/10	3-Punkt Untergruppe	. . . of coaxial type, e.g. of counter-rotative type
B63H 5/125	2-Punkt Untergruppe	. . movably mounted with respect to hull, e.g. adjustable in direction (movably mounted for steering purposes only B63H 25/42) [6]
B63H 5/14	2-Punkt Untergruppe	. . characterised by being mounted in non-rotating ducts or rings, e.g. adjustable for steering purposes (shrouding ring attached to blades B63H 1/16; jet propulsion B63H 11/00)
B63H 5/15	3-Punkt Untergruppe	. . . Nozzles, e.g. Kort-type [4]
B63H 5/16	2-Punkt Untergruppe	. . characterised by being mounted in recesses; with stationary water-guiding elements; Means to prevent fouling of the propeller, e.g. guards, cages or screens (anti-fouling paints C09D 5/16)
B63H 5/18	2-Punkt Untergruppe	. . of emergency propellers, e.g. arranged at the side of the vessel
B63H 5/20	3-Punkt Untergruppe	. . . movable from a working position to a non-working position [4]
B63H 7/00	**Hauptgruppe**	**Arrangements of propulsive devices directly acting on air (jet propulsion B63H 11/00)**
B63H 7/02	1-Punkt Untergruppe	. using propellers (air-screws of aircraft type B64C)
B63H 9/00	**Hauptgruppe**	**Propulsive devices directly acted on by wind; Arrangements thereof (air-driven propellers driving underwater propulsive elements B63H 13/00)**
B63H 9/02	1-Punkt Untergruppe	. using Magnus effect
B63H 9/04	1-Punkt Untergruppe	. using sails or like wind-catching surfaces (sailing sledges or ice boats B62B 15/00)
B63H 9/06	2-Punkt Untergruppe	. . Construction or types of sails; Arrangements thereof on vessels
B63H 9/08	2-Punkt Untergruppe	. . Connections of sails to masts, spars, or the like
B63H 9/10	3-Punkt Untergruppe	. . . Spars; Running rigging, e.g. reefing equipment (staying of masts B63B 15/02)
B63H 11/00	**Hauptgruppe**	**Effecting propulsion by jets, i.e. reaction principle (steering by jet action B63H 25/46; power plant per se, see the relevant classes)**
B63H 11/01	1-Punkt Untergruppe	. having means to prevent foreign material from clogging fluid passageway [4]
B63H 11/02	1-Punkt Untergruppe	. the propulsive medium being ambient water
B63H 11/04	2-Punkt Untergruppe	. . by means of pumps
B63H 11/06	3-Punkt Untergruppe	. . . of reciprocating type
B63H 11/08	3-Punkt Untergruppe	. . . of rotary type
B63H 11/09	3-Punkt Untergruppe	. . . by means of pressure pulses applied to a column of liquid, e.g. by ignition of an air/gas or vapour mixture [4]

Symbol	Typ	Titel
B63H 11/10	2-Punkt Untergruppe	. . having means for deflecting jet or influencing cross-section thereof
B63H 11/103	3-Punkt Untergruppe	. . . having means to increase efficiency of propulsive fluid, e.g. discharge pipe provided with means to improve the fluid flow [4]
B63H 11/107	3-Punkt Untergruppe	. . . Direction control of propulsive fluid [4]
B63H 11/11	4-Punkt Untergruppe	. . . . with bucket or clamshell-type reversing means [4]
B63H 11/113	4-Punkt Untergruppe	. . . . Pivoted outlet [4]
B63H 11/117	4-Punkt Untergruppe	. . . . Pivoted vane [4]
B63H 11/12	1-Punkt Untergruppe	. the propulsive medium being steam or other gas
B63H 11/14	2-Punkt Untergruppe	. . the gas being produced by combustion
B63H 11/16	2-Punkt Untergruppe	. . the gas being produced by other chemical processes
B63H 13/00	**Hauptgruppe**	**Effecting propulsion by wind motors driving water-engaging propulsive elements**
B63H 15/00	**Hauptgruppe**	**Effecting propulsion by use of vessel-mounted driving mechanisms co-operating with anchored chains or the like**
B63H 16/00	**Hauptgruppe**	**Effecting propulsion by muscle power (swimming frameworks with swimmer-operated driving mechanisms A63B 35/00; land-based training equipment for rowing or sculling A63B 69/06)**
B63H 16/02	1-Punkt Untergruppe	. Movable thwarts; Foot-rests
B63H 16/04	1-Punkt Untergruppe	. Oars; Sculls; Paddles; Poles
B63H 16/06	1-Punkt Untergruppe	. Rowlocks; Mountings therefor
B63H 16/067	2-Punkt Untergruppe	. . Rowlocks mounted on a structure extending beyond the gunwale of the vessel [4]
B63H 16/073	2-Punkt Untergruppe	. . having oar shaft restraining means [4]
B63H 16/08	1-Punkt Untergruppe	. Other apparatus for converting muscle power into propulsive effort (general features of propulsion elements, see the relevant groups)
B63H 16/10	2-Punkt Untergruppe	. . for bow-facing rowing
B63H 16/16	2-Punkt Untergruppe	. . using reciprocating pull cable, i.e. a strand-like member movable alternately backward and forward [4]
B63H 16/18	2-Punkt Untergruppe	. . using sliding handle or pedal, i.e. the motive force being transmitted to a propelling means by means of a lever operated by the hand or foot of the occupant [4]
B63H 16/20	2-Punkt Untergruppe	. . using rotary cranking arm [4]
B63H 19/00	**Hauptgruppe**	**Effecting propulsion of vessels, not otherwise provided for**
B63H 19/02	1-Punkt Untergruppe	. by using energy derived from movement of ambient water, e.g. from rolling or pitching of vessels
B63H 19/04	2-Punkt Untergruppe	. . propelled by water current
B63H 19/06	1-Punkt Untergruppe	. by discharging gas into ambient water (with jet action B63H 11/12; for reducing surface friction B63B 1/38)
B63H 19/08	1-Punkt Untergruppe	. by direct engagement with water-bed or ground
B63H 20/00	**Hauptgruppe**	**Outboard propulsion units, i.e. propulsion units having a substantially vertical power leg mounted outboard of a hull and terminating in a propulsion element, e.g. "outboard motors", Z-drives (power plants per se, see the relevant classes); Arrangements thereof on vessels [6]**
B63H 20/02	1-Punkt Untergruppe	. Mounting of propulsion units (B63H 20/08 takes precedence) [6]
B63H 20/04	2-Punkt Untergruppe	. . in a well [6]

Symbol	Typ	Titel
B63H 20/06	2-Punkt Untergruppe	. . on an intermediate support [6]
B63H 20/08	1-Punkt Untergruppe	. Means enabling movement of the position of the propulsion element, e.g. for trim, tilt, or steering (transmissions allowing movement of the propulsion element B63H 20/14); Control of trim or tilt (initiating means for steering B63H 25/02) [6]
B63H 20/10	2-Punkt Untergruppe	. . Means enabling trim or tilt, or lifting of the propulsion element when an obstruction is hit; Control of trim or tilt [6]
B63H 20/12	2-Punkt Untergruppe	. . Means enabling steering [6]
B63H 20/14	1-Punkt Untergruppe	. Transmission between propulsion power unit and propulsion element [6]
B63H 20/16	2-Punkt Untergruppe	. . allowing movement of the propulsion element in a horizontal plane only, e.g. for steering [6]
B63H 20/18	2-Punkt Untergruppe	. . allowing movement of the propulsion element about a longitudinal axis, e.g. the through transom shaft (B63H 20/22 takes precedence) [6]
B63H 20/20	2-Punkt Untergruppe	. . with provision for reverse drive [6]
B63H 20/22	2-Punkt Untergruppe	. . allowing movement of the propulsion element about at least a horizontal axis without disconnection of the drive, e.g. using universal joints [6]
B63H 20/24	1-Punkt Untergruppe	. Exhaust gas outlets [6]
B63H 20/26	2-Punkt Untergruppe	. . passing through the propeller or its hub [6]
B63H 20/28	1-Punkt Untergruppe	. Cooling-water intakes [6]
B63H 20/30	2-Punkt Untergruppe	. . for flushing [6]
B63H 20/32	1-Punkt Untergruppe	. Housings [6]
B63H 20/34	2-Punkt Untergruppe	. . comprising stabilising fins [6]
B63H 20/36	1-Punkt Untergruppe	. Transporting or testing stands; Protection of power legs [6]
B63H 21/00	**Hauptgruppe**	**Use of propulsion power plant or units on vessels (use of outboard propulsion units B63H 20/00; hull reinforcements for carrying propulsion power plant or units B63B 3/70; propulsion power plant or units per se, see the relevant classes) [6]**
B63H 21/02	1-Punkt Untergruppe	. the vessels being steam-driven (B63H 21/18 takes precedence)
B63H 21/04	2-Punkt Untergruppe	. . relating to positive-displacement steam engines
B63H 21/06	2-Punkt Untergruppe	. . relating to steam turbines
B63H 21/08	2-Punkt Untergruppe	. . relating to steam boilers
B63H 21/10	2-Punkt Untergruppe	. . relating to condensers or engine-cooling fluid heat-exchangers
B63H 21/12	1-Punkt Untergruppe	. the vessels being motor-driven (B63H 21/175, B63H 21/18 take precedence) [4]
B63H 21/14	2-Punkt Untergruppe	. . relating to internal-combustion engines
B63H 21/16	2-Punkt Untergruppe	. . relating to gas turbines
B63H 21/165	2-Punkt Untergruppe	. . by hydraulic fluid motor, i.e. wherein a liquid under pressure is utilised to rotate the propelling means [4]
B63H 21/17	2-Punkt Untergruppe	. . by electric motor (electrically-propelled vehicles B60L) [4]
B63H 21/175	1-Punkt Untergruppe	. the vessel being powered by land vehicle supported by vessel [4]

Symbol	Typ	Titel
B63H 21/18	1-Punkt Untergruppe	. the vessels being powered by nuclear energy
B63H 21/20	1-Punkt Untergruppe	. the vessels being powered by combinations of different types of propulsion units
B63H 21/21	1-Punkt Untergruppe	. Control means for engine or transmission, specially adapted for use on marine vessels [4]
B63H 21/22	1-Punkt Untergruppe	. the propulsion power units being controlled from exterior of engine room, e.g. from navigation bridge; Arrangements of order telegraphs (order telegraphs per seG08B 9/00)
B63H 21/30	1-Punkt Untergruppe	. Mounting of propulsion plant or unit, e.g. for anti-vibration purposes (hull reinforcements therefor B63B 3/70; vibration-dampers, suppression of vibration in systems F16F; engine beds F16M)
B63H 21/32	1-Punkt Untergruppe	. Arrangements of propulsion power-unit exhaust uptakes; Funnels peculiar to vessels (engine exhausts in general F01N; flue devices for furnaces in general F23J)
B63H 21/34	2-Punkt Untergruppe	. . having exhaust-gas deflecting means
B63H 21/36	1-Punkt Untergruppe	. Covers or casing arranged to protect plant or unit from marine environment (hull construction B63B 3/00) [4]
B63H 21/38	1-Punkt Untergruppe	. Apparatus or methods specially adapted for use on marine vessels, for handling power plant or unit liquids, e.g. lubricants, coolants, fuels or the like (lubricating or cooling engines in general F01-F04) [4]
B63H 23/00	**Hauptgruppe**	**Transmitting power from propulsion power plant to propulsive elements (changing pitch of propellers B63H 3/00; adaptation of transmission to allow adjustment in direction of propellers B63H 5/125; transmission between wind motors and propulsive elements B63H 13/00, in outboard propulsion units B63H 20/14; adaptation of transmission to allow adjustment of location of propellers B63H 20/08; for vehicles in general B60K; driving auxiliary machinery B63J; transmission elements per seF16)**
B63H 23/02	1-Punkt Untergruppe	. with mechanical gearing
B63H 23/04	2-Punkt Untergruppe	. . the main transmitting element, e.g. shaft, being substantially vertical
B63H 23/06	2-Punkt Untergruppe	. . for transmitting drive from a single propulsion power unit
B63H 23/08	3-Punkt Untergruppe	. . . with provision for reversing drive
B63H 23/10	2-Punkt Untergruppe	. . for transmitting drive from more than one propulsion power unit (for synchronisation of propulsive elements B63H 23/28)
B63H 23/12	3-Punkt Untergruppe	. . . allowing combined use of the propulsion power units
B63H 23/14	4-Punkt Untergruppe	. . . . with unidirectional drive or where reversal is immaterial
B63H 23/16	4-Punkt Untergruppe	. . . . characterised by provision of reverse drive
B63H 23/18	3-Punkt Untergruppe	. . . for alternative use of the propulsion power units
B63H 23/20	4-Punkt Untergruppe	. . . . with separate forward and astern propulsion power units, e.g. turbines
B63H 23/22	1-Punkt Untergruppe	. with non-mechanical gearing
B63H 23/24	2-Punkt Untergruppe	. . electric
B63H 23/26	2-Punkt Untergruppe	. . fluid
B63H 23/28	1-Punkt Untergruppe	. with synchronisation of propulsive elements
B63H 23/30	1-Punkt Untergruppe	. characterised by use of clutches
B63H 23/32	1-Punkt Untergruppe	. Other parts

Symbol	Typ	Titel
B63H 23/34	2-Punkt Untergruppe	. . Propeller shafts; Paddle-wheel shafts; Attachment of propellers on shafts (shafts in general F16C; attachment of a member on a shaft in general F16D 1/06)
B63H 23/35	3-Punkt Untergruppe	. . . Shaft braking or locking, i.e. means to slow or stop the rotation of the propeller shaft or to prevent the shaft from initial rotation [4]
B63H 23/36	2-Punkt Untergruppe	. . Shaft tubes (propeller-shaft tunnels B63B 11/06; shaft-tube seals F16J)
B63H 25/00	**Hauptgruppe**	**Steering; Slowing-down otherwise than by use of propulsive elements (using adjustably-mounted propeller ducts or rings for steering B63H 5/14; using movably-installed outboard propulsion units B63H 20/00); Dynamic anchoring, i.e. positioning vessels by means of main or auxiliary propulsive elements (anchoring, other than dynamic, B63B 21/00; equipment to decrease pitch, roll, or like unwanted vessel movements by auxiliary jets or propellers B63B 39/08)**
B63H 25/02	1-Punkt Untergruppe	. Initiating means for steering
B63H 25/04	2-Punkt Untergruppe	. . automatic, e.g. reacting to compass
B63H 25/06	1-Punkt Untergruppe	. Steering by rudders (by rudders carrying propellers B63H 25/42)
B63H 25/08	2-Punkt Untergruppe	. . Steering gear
B63H 25/10	3-Punkt Untergruppe	. . . with mechanical transmission
B63H 25/12	3-Punkt Untergruppe	. . . with fluid transmission
B63H 25/14	3-Punkt Untergruppe	. . . power assisted; power driven, i.e. using steering engine
B63H 25/16	4-Punkt Untergruppe	. . . . with alternative muscle or power- operated steering
B63H 25/18	4-Punkt Untergruppe	. . . . Transmitting of movement of initiating means to steering engine
B63H 25/20	5-Punkt Untergruppe	. . . . . by mechanical means
B63H 25/22	5-Punkt Untergruppe	. . . . . by fluid means
B63H 25/24	5-Punkt Untergruppe	. . . . . by electrical means
B63H 25/26	4-Punkt Untergruppe	. . . . Steering engines
B63H 25/28	5-Punkt Untergruppe	. . . . . of fluid type
B63H 25/30	6-Punkt Untergruppe	. . . . . hydraulic
B63H 25/32	6-Punkt Untergruppe	. . . . . steam
B63H 25/34	4-Punkt Untergruppe	. . . . Transmitting of movement of engine to rudder, e.g. using quadrants, brakes
B63H 25/36	2-Punkt Untergruppe	. . Rudder-position indicators
B63H 25/38	2-Punkt Untergruppe	. . Rudders (stern posts B63B 3/40)
B63H 25/40	3-Punkt Untergruppe	. . . using Magnus effect
B63H 25/42	1-Punkt Untergruppe	. Steering or dynamic anchoring by propulsive elements (by jets B63H 25/46); Steering or dynamic anchoring by propellers used therefor only; Steering or dynamic anchoring by rudders carrying propellers [2]
B63H 25/44	1-Punkt Untergruppe	. Steering or slowing-down by extensible flaps or the like
B63H 25/46	1-Punkt Untergruppe	. Steering or dynamic anchoring by jets [2]
B63H 25/48	1-Punkt Untergruppe	. Steering or slowing-down by deflection of propeller slip-stream otherwise than by rudder
B63H 25/50	1-Punkt Untergruppe	. Slowing-down means not otherwise provided for

Symbol	Typ	Titel
B63H 25/52	1-Punkt Untergruppe	. Parts for steering not otherwise provided for