

CPC COOPERATIVE PATENT CLASSIFICATION

B PERFORMING OPERATIONS; TRANSPORTING

(NOTES omitted)

TRANSPORTING

B63 SHIPS OR OTHER WATERBORNE VESSELS; RELATED EQUIPMENT

B63H MARINE PROPULSION OR STEERING (propulsion of air-cushion vehicles [B60V 1/14](#); specially adapted for submarines, other than nuclear propulsion, [B63G](#); specially adapted for torpedoes [F42B 19/00](#))

NOTE

In this subclass, the indexing codes [B63B 2201/00](#) - [B63B 2241/00](#) are to be used for relevant technical information concerning particular or unusual use, materials, design, methods or means

WARNINGS

1. In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.
2. Groups [B63H 1/00](#) - [B63H 25/52](#) are incomplete pending reclassification of documents from groups [B63B 2701/00](#) - [B63B 2770/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.

1/00	Propulsive elements directly acting on water (jet propulsion B63H 11/00)	1/18	. . . . with means for diminishing cavitation, e.g. supercavitation
2001/005	. {using Magnus effect}	2001/185	. . . . {Surfacing propellers, i.e. propellers specially adapted for operation at the water surface, with blades incompletely submerged, or piercing the water surface from above in the course of each revolution}
1/02	. of rotary type	1/20	. . . . Hubs; Blade connections
1/04	. . with rotation axis substantially at right angles to propulsive direction	1/22	. . . . the blades being foldable
2001/045	. . . {with partially immersed nutating or ondulated disks, e.g. wobble plates}	1/24	. . . . automatically foldable or unfoldable
1/06	. . . with adjustable vanes or blades	1/26	. . . . Blades
1/08	. . . . with cyclic adjustment	1/265	. . . . {each blade being constituted by a surface enclosing an empty space, e.g. forming a closed loop}
1/10	. . . . of Voith Schneider type, i.e. with blades extending axially from a disc-shaped rotary body	1/28	. . . . Other means for improving propeller efficiency
2001/105	. . . . {with non-mechanical control of individual blades, e.g. electric or hydraulic control}	2001/283	. . . . {Propeller hub caps with fins having a pitch different from pitch of propeller blades, or a helix hand opposed to the propellers' helix hand}
1/12	. . with rotation axis substantially in propulsive direction	2001/286	. . . . {Injection of gas into fluid flow to propellers, or around propeller blades}
2001/122	. . . {Single or multiple threaded helicoidal screws, or the like, comprising foils extending over a substantial angle; Archimedean screws}	1/30	. of non-rotary type
2001/125	. . . . {with helicoidal foils projecting from outside surfaces of floating rotatable bodies, e.g. rotatable, cylindrical bodies}	1/32	. . Flaps, pistons, or the like, reciprocating in propulsive direction
2001/127	. . . . {with helicoidal foils projecting from inside surfaces of rotating shrouds; Archimedean screws}	1/34	. . of endless-track type
1/14	. . . Propellers (pitch changing B63H 3/00)	2001/342	. . . {with tracks substantially parallel to propulsive direction}
2001/145	. . . . {comprising blades of two or more different types, e.g. different lengths}	2001/344	. . . . {having paddles mounted in fixed relation to tracks, or to track members}
1/15	. . . . having vibration damping means	2001/346	. . . . {having paddles movably mounted on the track or on track members, e.g. articulated, or with means for cyclically controlling the paddles' angular position or orientation}
1/16	. . . . having a shrouding ring attached to blades		
2001/165	. . . . {Hubless propellers, e.g. peripherally driven shrouds with blades projecting from the shrouds' inside surfaces}		

- 2001/348 . . . {with tracks oriented transverse to propulsive direction}
- 1/36 . . swinging sideways, e.g. fishtail type
- 1/37 . . Moving-wave propellers, i.e. wherein the propelling means comprise a flexible undulating structure
- 1/38 . characterised solely by flotation properties, e.g. drums
- 3/00 Propeller-blade pitch changing** {(aircraft propellers [B64C 11/30](#); rotors of turbines [F01D 7/00](#); axial wind motors [F03D 7/022](#); axial-flow pumps [F04D 29/00](#))}
- 3/002 . {with individually adjustable blades}
- 2003/004 . {comprising means for locking blades in position}
- 2003/006 . {Detecting or transmitting propeller-blade pitch angle}
- 3/008 . {characterised by self-adjusting pitch, e.g. by means of springs, centrifugal forces, hydrodynamic forces}
- 3/02 . actuated by control element coaxial with propeller shaft, e.g. the control element being rotary {([B63H 3/002](#) takes precedence, fluid actuated [B63H 3/081](#))}
- 3/04 . . the control element being reciprocable
- 3/06 . characterised by use of non-mechanical actuating means, e.g. electrical ([B63H 3/002](#) takes precedence)
- 3/08 . . fluid
- 3/081 . . . {actuated by control element coaxial with the propeller shaft}
- 3/082 {the control element being axially reciprocable}
- 2003/084 {with annular cylinder and piston}
- 2003/085 {the control element having means for preventing rotation together with the propeller}
- 2003/087 . . . {using gaseous fluids, e.g. steam or air}
- 2003/088 . . . {characterised by supply of fluid actuating medium to control element, e.g. of hydraulic fluid to actuator co-rotating with the propeller}
- 3/10 . characterised by having pitch control conjoint with propulsion plant control
- 3/12 . the pitch being adjustable only when propeller is stationary ([B63H 3/002](#) takes precedence)
- 5/00 Arrangements on vessels of propulsion elements directly acting on water**
- 2005/005 . {Front propulsors, i.e. propellers, paddle wheels, or the like substantially arranged ahead of the vessels' midship section}
- 5/02 . of paddle wheels, e.g. of stern wheels
- 2005/025 . . {of Voith Schneider type}
- 5/03 . . 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
- 5/04 . . with stationary water-guiding elements
- 5/07 . of propellers (forming part of outboard units {or Z-drives} [B63H 20/00](#))
- 2005/075 . . {using non-azimuthing podded propulsor units, i.e. podded units without means for rotation about a vertical axis, e.g. rigidly connected to the hull}
- 5/08 . . of more than one propeller
- 5/10 . . . of coaxial type, e.g. of counter-rotative type
- 2005/103 {of co-rotative type, i.e. rotating in the same direction, e.g. twin propellers}
- 2005/106 {with drive shafts of second or further propellers co-axially passing through hub of first propeller, e.g. counter-rotating tandem propellers with co-axial drive shafts}
- 5/125 . . movably mounted with respect to hull, e.g. adjustable in direction {, e.g. podded azimuthing thrusters}({outboard units or Z-drives [B63H 20/00](#); } movably mounted for steering purposes only, {rudders carrying propellers} [B63H 25/42](#))
- WARNING**
- Group [B63H 5/125](#) is incomplete pending reclassification of documents from groups [B63H 21/26](#), [B63H 21/265](#), and [B63H 21/28](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 5/1252 . . . {the ability to move being conferred by gearing in transmission between prime mover and propeller and the propulsion unit being other than in a "Z" configuration}
- WARNING**
- Group [B63H 5/1252](#) is incomplete pending reclassification of documents from groups [B63H 21/26](#), [B63H 21/265](#), and [B63H 21/28](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 2005/1254 . . . {Podded azimuthing thrusters, i.e. podded thruster units arranged inboard for rotation about vertical axis}
- WARNING**
- Group [B63H 2005/1254](#) is incomplete pending reclassification of documents from groups [B63H 21/26](#), [B63H 21/265](#), and [B63H 21/28](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 2005/1256 {with mechanical power transmission to propellers}
- WARNING**
- Group [B63H 2005/1256](#) is incomplete pending reclassification of documents from groups [B63H 21/26](#), [B63H 21/265](#), and [B63H 21/28](#).
- All groups listed in this Warning should be considered in order to perform a complete search.

- 2005/1258 {with electric power transmission to propellers, i.e. with integrated electric propeller motors}

WARNING

Group [B63H 2005/1258](#) is incomplete pending reclassification of documents from groups [B63H 21/26](#), [B63H 21/265](#), and [B63H 21/28](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 5/14 . . characterised by being mounted in non-rotating ducts or rings, e.g. adjustable for steering purpose (shrouding ring attached to blades [B63H 1/16](#); jet propulsion [B63H 11/00](#))
- 5/15 . . . Nozzles, e.g. Kort-type
- 5/16 . . characterised by being mounted in recesses; with stationary water-guiding elements; Means to prevent fouling of the propeller, e.g. guards, cages or screens
- 5/165 . . . {Propeller guards, line cutters or other means for protecting propellers or rudders}
- 5/18 . . of emergency propellers, e.g. arranged at the side of the vessel
- 5/20 . . . movable from a working position to a non-working position {(movable arrangements of propellers in general [B63H 5/125](#); outboard propulsion units in general [B63H 20/00](#); steering or dynamic anchoring by propellers used therefore only, or by rudders carrying propellers [B63H 25/42](#))}

Propulsion using air or wind

- 7/00 **Propulsion directly actuated on air** (jet propulsion [B63H 11/00](#))
- 7/02 . using propellers
- 8/00 **Sail or rigging arrangements specially adapted for water sports boards, e.g. for windsurfing or kitesurfing**

WARNING

Group [B63H 8/00](#) is incomplete pending reclassification of documents from groups [A63C 5/11](#), [B60K 16/00](#), [B60K 2016/006](#), [B62B 15/00](#) - [B62B 15/005](#), [B63H 9/04](#) and [B63H 9/06](#).

Group [B63H 8/00](#) is also impacted by reclassification into groups [B63H 8/20](#), [B63H 8/23](#), [B63H 8/25](#), [B63H 8/40](#), [B63H 8/50](#), [B63H 8/52](#), [B63H 8/54](#), [B63H 8/56](#), [B63H 8/58](#) and [B63H 8/70](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 8/10 . Kite-sails; Kite-wings; Control thereof; Safety means therefor

WARNING

Group [B63H 8/10](#) is incomplete pending reclassification of documents from groups [A63C 5/11](#), [A63H 27/08](#), [A63H 27/082](#), [A63H 27/085](#), [A63H 27/087](#), [B60K 16/00](#), [B60K 2016/006](#), [B62B 15/00](#) - [B62B 15/005](#), [B63H 9/04](#), [B63H 9/06](#) and [B64C 31/06](#).

Group [B63H 8/10](#) is also impacted by reclassification into groups [B63H 8/12](#), [B63H 8/14](#), [B63H 8/23](#), [B63H 8/25](#), [B63H 8/50](#), [B63H 8/52](#), [B63H 8/54](#), [B63H 8/56](#), [B63H 8/58](#) and [B63H 8/70](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 8/12 . . Kites with inflatable closed compartments

WARNING

Group [B63H 8/12](#) is incomplete pending reclassification of documents from groups [A63C 5/11](#), [A63H 27/08](#), [A63H 27/082](#), [A63H 27/085](#), [A63H 27/087](#), [B60K 16/00](#), [B60K 2016/006](#), [B62B 15/00](#) - [B62B 15/005](#), [B63H 8/10](#), [B63H 9/04](#), [B63H 9/06](#) and [B64C 31/06](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 8/14 . . Ram-air kites, i.e. kites at least partly inflated by air entering their leading edges during use

WARNING

Group [B63H 8/14](#) is incomplete pending reclassification of documents from groups [A63C 5/11](#), [A63H 27/08](#), [A63H 27/082](#), [A63H 27/085](#), [A63H 27/087](#), [B60K 16/00](#), [B60K 2016/006](#), [B62B 15/00](#) - [B62B 15/005](#), [B63H 8/10](#), [B63H 9/04](#), [B63H 9/06](#) and [B64C 31/06](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 8/16 . . Control arrangements, e.g. control bars or control lines

WARNING

Group [B63H 8/16](#) is incomplete pending reclassification of documents from groups [A63C 5/11](#), [A63H 27/08](#), [A63H 27/082](#), [A63H 27/085](#), [A63H 27/087](#), [B60K 16/00](#), [B60K 2016/006](#), [B62B 15/00 - B62B 15/005](#), [B63H 9/04](#), [B63H 9/06](#), [B63H 9/072](#) and [B64C 31/06](#).

Group [B63H 8/16](#) is also impacted by reclassification into groups [B63H 8/18](#), [B63H 8/23](#), [B63H 8/25](#), [B63H 8/50](#), [B63H 8/52](#), [B63H 8/54](#), [B63H 8/56](#) and [B63H 8/58](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 8/18 . . Arrangements for connecting the user to a kite-sail; Kite-safety means, e.g. chicken loops, safety leashes or quick release mechanisms

WARNING

Group [B63H 8/18](#) is incomplete pending reclassification of documents from groups [A63C 5/11](#), [A63H 27/08](#), [A63H 27/082](#), [A63H 27/085](#), [A63H 27/087](#), [B60K 16/00](#), [B60K 2016/006](#), [B62B 15/00 - B62B 15/005](#), [B63H 8/16](#), [B63H 9/04](#), [B63H 9/06](#), [B63H 9/072](#) and [B64C 31/06](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 8/20 . . Rigging arrangements involving masts, e.g. for windsurfing

WARNING

Group [B63H 8/20](#) is incomplete pending reclassification of documents from groups [A63C 5/11](#), [B60K 16/00](#), [B60K 2016/006](#), [B62B 15/00 - B62B 15/005](#), [B63H 8/00](#), [B63H 9/04](#) and [B63H 9/06](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 8/21 . . Wishbones

WARNING

Group [B63H 8/21](#) is incomplete pending reclassification of documents from groups [A63C 5/11](#), [B60K 16/00](#), [B60K 2016/006](#), [B62B 15/00 - B62B 15/005](#), [B63H 9/04](#) and [B63H 9/06](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 8/22 . . for connecting wishbones to the mast

WARNING

Group [B63H 8/22](#) is incomplete pending reclassification of documents from groups [A63C 5/11](#), [B60K 16/00](#), [B60K 2016/006](#), [B62B 15/00 - B62B 15/005](#), [B63H 9/04](#) and [B63H 9/06](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 8/23 . . for tensioning or trimming the clew of the sail, e.g. outhaul trimmers

WARNING

Group [B63H 8/23](#) is incomplete pending reclassification of documents from groups [A63C 5/11](#), [A63H 27/08](#), [A63H 27/082](#), [A63H 27/085](#), [A63H 27/087](#), [B60K 16/00](#), [B60K 2016/006](#), [B62B 15/00 - B62B 15/005](#), [B63B 7/085](#), [B63B 7/087](#), [B63B 32/00](#), [B63B 32/70](#), [B63B 35/00](#), [B63H 8/00](#), [B63H 8/10](#), [B63H 8/16](#), [B63H 8/52](#), [B63H 9/04](#), [B63H 9/06](#), [B63H 9/072](#) and [B64C 31/06](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 8/24 . . Arrangements for connecting the rigging to a board

WARNING

Group [B63H 8/24](#) is incomplete pending reclassification of documents from groups [A63C 5/11](#), [B60K 16/00](#), [B60K 2016/006](#), [B62B 15/00 - B62B 15/005](#), [B63B 1/24 - B63B 1/30](#), [B63B 32/00](#), [B63B 32/68](#), [B63B 35/00](#), [B63H 9/04](#) and [B63H 9/06](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 8/25 . . Arrangements for connecting the sail to a mast foot, e.g. downhaul tensioners or mast foot extensions

WARNING

Group [B63H 8/25](#) is incomplete pending reclassification of documents from groups [A63C 5/11](#), [A63H 27/08](#), [A63H 27/082](#), [A63H 27/085](#), [A63H 27/087](#), [B60K 16/00](#), [B60K 2016/006](#), [B62B 15/00 - B62B 15/005](#), [B63B 7/085](#), [B63B 7/087](#), [B63B 32/00](#), [B63B 32/70](#), [B63B 35/00](#), [B63H 8/00](#), [B63H 8/10](#), [B63H 8/16](#), [B63H 8/52](#), [B63H 9/04](#), [B63H 9/06](#), [B63H 9/072](#) and [B64C 31/06](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 8/40 . Arrangements for improving or maintaining the aerodynamic profile of sails, e.g. cambers, battens or foil profiles

WARNING

Group [B63H 8/40](#) is incomplete pending reclassification of documents from groups [A63C 5/11](#), [B60K 16/00](#), [B60K 2016/006](#), [B62B 15/00 - B62B 15/005](#), [B63H 8/00](#), [B63H 9/04](#), [B63H 9/06](#) and [B63H 9/065](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 8/50 . Accessories, e.g. repair kits or kite launching aids

WARNING

Group [B63H 8/50](#) is incomplete pending reclassification of documents from groups [A63C 5/11](#), [A63H 27/08](#), [A63H 27/082](#), [A63H 27/085](#), [A63H 27/087](#), [B60K 16/00](#), [B60K 2016/006](#), [B62B 15/00 - B62B 15/005](#), [B63B 7/085](#), [B63B 7/087](#), [B63B 32/00](#), [B63B 32/70](#), [B63B 35/00](#), [B63H 8/00](#), [B63H 8/10](#), [B63H 8/16](#), [B63H 9/04](#), [B63H 9/06](#), [B63H 9/072](#) and [B64C 31/06](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 8/52 . . Handheld cleats, cams or hooks for tensioning the downhaul or outhaul of a windsurfing sail

WARNING

Group [B63H 8/52](#) is incomplete pending reclassification of documents from groups [A63C 5/11](#), [A63H 27/08](#), [A63H 27/082](#), [A63H 27/085](#), [A63H 27/087](#), [B60K 16/00](#), [B60K 2016/006](#), [B62B 15/00 - B62B 15/005](#), [B63B 7/085](#), [B63B 7/087](#), [B63B 32/00](#), [B63B 32/70](#), [B63B 35/00](#), [B63H 8/00](#), [B63H 8/10](#), [B63H 8/16](#), [B63H 9/04](#), [B63H 9/06](#), [B63H 9/072](#) and [B64C 31/06](#).

Group [B63H 8/52](#) is also impacted by reclassification into groups [B63H 8/23](#) and [B63H 8/25](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 8/54 . . Arrangements for connecting the user or the harness to the wishbone, e.g. trapeze lines or handgrips

WARNING

Group [B63H 8/54](#) is incomplete pending reclassification of documents from groups [A63C 5/11](#), [A63H 27/08](#), [A63H 27/082](#), [A63H 27/085](#), [A63H 27/087](#), [B60K 16/00](#), [B60K 2016/006](#), [B62B 15/00 - B62B 15/005](#), [B63B 7/085](#), [B63B 7/087](#), [B63B 32/00](#), [B63B 32/70](#), [B63B 35/00](#), [B63H 8/00](#), [B63H 8/10](#), [B63H 8/16](#), [B63H 9/04](#), [B63H 9/06](#), [B63H 9/072](#) and [B64C 31/06](#).

Group [B63H 8/54](#) is also impacted by reclassification into groups [B63H 8/56](#) and [B63H 8/58](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 8/56 . . Devices to distribute the user's load, e.g. harnesses

WARNING

Group [B63H 8/56](#) is incomplete pending reclassification of documents from groups [A63C 5/11](#), [A63H 27/08](#), [A63H 27/082](#), [A63H 27/085](#), [A63H 27/087](#), [B60K 16/00](#), [B60K 2016/006](#), [B62B 15/00 - B62B 15/005](#), [B63B 7/085](#), [B63B 7/087](#), [B63B 32/00](#), [B63B 32/70](#), [B63B 35/00](#), [B63H 8/00](#), [B63H 8/10](#), [B63H 8/16](#), [B63H 8/54](#), [B63H 9/04](#), [B63H 9/06](#), [B63H 9/072](#) and [B64C 31/06](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 8/58 . . . Spreader bars; Hook connection arrangements

WARNING

Group [B63H 8/58](#) is incomplete pending reclassification of documents from groups [A63C 5/11](#), [A63H 27/08](#), [A63H 27/082](#), [A63H 27/085](#), [A63H 27/087](#), [B60K 16/00](#), [B60K 2016/006](#), [B62B 15/00 - B62B 15/005](#), [B63B 7/085](#), [B63B 7/087](#), [B63B 32/00](#), [B63B 32/70](#), [B63B 35/00](#), [B63H 8/00](#), [B63H 8/10](#), [B63H 8/16](#), [B63H 8/54](#), [B63H 9/04](#), [B63H 9/06](#), [B63H 9/072](#) and [B64C 31/06](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 8/70 . Arrangements for handling, stowing or transport thereof

WARNING

Group [B63H 8/70](#) is incomplete pending reclassification of documents from groups [A63C 5/11](#), [A63H 27/08](#), [A63H 27/082](#), [A63H 27/085](#), [A63H 27/087](#), [B60K 16/00](#), [B60K 2016/006](#), [B62B 15/00](#) - [B62B 15/005](#), [B63B 7/085](#), [B63B 7/087](#), [B63B 32/00](#), [B63B 32/70](#), [B63B 32/80](#), [B63B 35/00](#), [B63H 8/00](#), [B63H 8/10](#), [B63H 9/04](#), [B63H 9/06](#) and [B64C 31/06](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 9/00 **Marine propulsion provided directly by wind power** (wind-motors driving underwater propulsive elements [B63H 13/00](#))

- 9/02 . using Magnus effect
9/04 . using sails or like wind-catching surfaces (sail or rigging arrangements specially adapted for water sports boards, e.g. for windsurfing or kitesurfing [B63H 8/00](#))

WARNING

Group [B63H 9/04](#) is incomplete pending reclassification of documents from groups [A63C 5/11](#), [B60K 16/00](#), [B60K 2016/006](#) and [B62B 15/00](#) - [B62B 15/005](#).

Group [B63H 9/04](#) is also impacted by reclassification into groups [B63H 8/00](#) - [B63H 8/70](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 9/06 . . Types of sail; Constructional features of sails; Arrangements thereof on vessels

WARNING

Group [B63H 9/06](#) is incomplete pending reclassification of documents from groups [A63C 5/11](#), [B60K 16/00](#), [B60K 2016/006](#), [B62B 15/00](#), [B62B 15/001](#), [B62B 15/002](#), [B62B 15/003](#), [B62B 15/004](#) and [B62B 15/005](#).

Group [B63H 9/06](#) is also impacted by reclassification into groups [B63H 8/00](#) - [B63H 8/70](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 9/061 . . . Rigid sails; Aerofoil sails

WARNING

Group [B63H 9/061](#) is incomplete pending reclassification of documents from groups [A63C 5/11](#), [B60K 16/00](#), [B60K 2016/006](#) and [B62B 15/00](#) - [B62B 15/005](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 9/0615 {Inflatable aerofoil sails}

WARNING

Group [B63H 9/0615](#) is incomplete pending reclassification of documents from group [A63C 5/11](#).

Groups [A63C 5/11](#) and [B63H 9/0615](#) should be considered in order to perform a complete search.

- 9/0621 {Rigid sails comprising one or more pivotally supported panels}

WARNING

Group [B63H 9/0621](#) is incomplete pending reclassification of documents from group [A63C 5/11](#).

Groups [A63C 5/11](#) and [B63H 9/0621](#) should be considered in order to perform a complete search.

- 9/0628 {the panels being pivotable about horizontal axes}

WARNING

Group [B63H 9/0628](#) is incomplete pending reclassification of documents from group [A63C 5/11](#).

Groups [A63C 5/11](#) and [B63H 9/0628](#) should be considered in order to perform a complete search.

- 9/0635 {the panels being pivotable about vertical axes}

WARNING

Group [B63H 9/0635](#) is incomplete pending reclassification of documents from group [A63C 5/11](#).

Groups [A63C 5/11](#) and [B63H 9/0635](#) should be considered in order to perform a complete search.

- 9/065 . . . Battens (for water sports board sails [B63H 8/40](#))

WARNING

Group [B63H 9/065](#) is incomplete pending reclassification of documents from groups [A63C 5/11](#), [B60K 16/00](#), [B60K 2016/006](#) and [B62B 15/00](#) - [B62B 15/005](#).

Group [B63H 9/065](#) is also impacted by reclassification into group [B63H 8/40](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 9/067 . . . Sails characterised by their construction or manufacturing process

WARNING

Group [B63H 9/067](#) is incomplete pending reclassification of documents from groups [A63C 5/11](#), [B60K 16/00](#), [B60K 2016/006](#), [B62B 15/00](#), [B62B 15/001](#), [B62B 15/002](#), [B62B 15/003](#), [B62B 15/004](#) and [B62B 15/005](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 9/0671 {Moulded sails}

WARNING

Group [B63H 9/0671](#) is incomplete pending reclassification of documents from group [A63C 5/11](#).

Groups [A63C 5/11](#) and [B63H 9/0671](#) should be considered in order to perform a complete search.

- 9/0673 {Flying sails, e.g. spinnakers or gennakers}

WARNING

Group [B63H 9/0673](#) is incomplete pending reclassification of documents from group [A63C 5/11](#).

Groups [A63C 5/11](#) and [B63H 9/0673](#) should be considered in order to perform a complete search.

- 9/0678 {Laminated sails}

WARNING

Group [B63H 9/0678](#) is incomplete pending reclassification of documents from group [A63C 5/11](#).

Groups [A63C 5/11](#) and [B63H 9/0678](#) should be considered in order to perform a complete search.

- 9/068 . . . Sails pivotally mounted at mast tip

WARNING

Group [B63H 9/068](#) is incomplete pending reclassification of documents from groups [A63C 5/11](#), [A63H 27/08](#), [A63H 27/082](#), [A63H 27/085](#), [A63H 27/087](#), [B60K 16/00](#), [B60K 2016/006](#), [B62B 15/00](#) - [B62B 15/005](#), [B63H 9/069](#) and [B64C 31/06](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 9/069 . . . Kite-sails for vessels

WARNING

Group [B63H 9/069](#) is incomplete pending reclassification of documents from groups [A63C 5/11](#), [A63H 27/08](#), [A63H 27/082](#), [A63H 27/085](#), [A63H 27/087](#), [B60K 16/00](#), [B60K 2016/006](#), [B62B 15/00](#) - [B62B 15/005](#) and [B64C 31/06](#).

Group [B63H 9/069](#) is also impacted by reclassification into groups [B63H 9/068](#) and [B63H 9/071](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 9/071 for use in combination with other propulsion means, e.g. for improved fuel economy

WARNING

Group [B63H 9/071](#) is incomplete pending reclassification of documents from groups [A63C 5/11](#), [A63H 27/08](#), [A63H 27/082](#), [A63H 27/085](#), [A63H 27/087](#), [B60K 16/00](#), [B60K 2016/006](#), [B62B 15/00](#) - [B62B 15/005](#), [B63H 9/069](#) and [B64C 31/06](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 9/072 Control arrangements, e.g. for launching or recovery

WARNING

Group [B63H 9/072](#) is incomplete pending reclassification of documents from groups [A63C 5/11](#), [A63H 27/08](#), [A63H 27/082](#), [A63H 27/085](#), [A63H 27/087](#), [B60K 16/00](#), [B60K 2016/006](#), [B62B 15/00](#) - [B62B 15/005](#) and [B64C 31/06](#).

Group [B63H 9/072](#) is also impacted by reclassification into groups [B63H 8/16](#), [B63H 8/18](#), [B63H 8/23](#), [B63H 8/25](#), [B63H 8/50](#), [B63H 8/52](#), [B63H 8/54](#), [B63H 8/56](#) and [B63H 8/58](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 9/08 . . Connections of sails to masts, spars, or the like

- 2009/082 . . . {Booms, or the like}

- 2009/084 . . . {Gooseneck bearings, i.e. bearings for pivotal support of booms on masts}

- 2009/086 . . . {by sliders, i.e. by shoes sliding in, or guided by channels, tracks or rails; for connecting luffs, leeches, battens, or the like to masts, spars or booms}

- 2009/088 . . . {Means for tensioning sheets, or other running rigging, adapted for being guided on rails, or the like mounted on deck, e.g. travellers or carriages with pulleys}

- 9/10 . . . Running rigging, e.g. reefing equipment (staying of masts [B63B 15/02](#))

9/1007	. . . . {Trapeze systems (harnesses for windsurfers B63H 8/54 , B63H 8/56)}
9/1014	. . . . {with elastic connection to harnesses}
9/1021	. . . . {Reefing}
9/1028	. . . . {by furling around stays}
9/1035	. . . . {by furling around or inside the mast}
9/1042	. . . . {by furling around or inside the boom}
2009/105	. . . . {using drives for actuating reefing mechanism, e.g. roll reefing drives}
2009/1057	. . . . {using sheaves being friction driven by endless ropes or by ropes having two free ends}
2009/1064	. . . . {using drums driven by winding or unwinding single ropes onto or from the drums}
9/1071	. . . . {Spinnaker poles or rigging, e.g. combined with spinnaker handling}
9/1078	. . . . {Boom brakes}
9/1085	. . . . {Boom vang}
9/1092	. . . . {Means for stowing, or securing sails when not in use (B63H 9/1021 takes precedence)}
11/00	Marine propulsion by water jets
2011/002	. {using Coanda effect, i.e. the tendency of fluid jets to be attracted to nearby surfaces}
2011/004	. {using the eductor or injector pump principle, e.g. jets with by-pass fluid paths}
2011/006	. {with propulsive medium supplied from sources external to propelled vessel, e.g. water from public water supply}
2011/008	. {Arrangements of two or more jet units}
11/01	. having means to prevent foreign material from clogging fluid passage way
11/02	. the propulsive medium being ambient water
11/025	. . {by means of magneto-hydro-dynamic forces}
11/04	. . by means of pumps
2011/043	. . . {with means for adjusting or varying pump inlets, e.g. means for varying inlet cross section area}
2011/046	. . . {comprising means for varying pump characteristics, e.g. rotary pumps with variable pitch impellers, or adjustable stators}
11/06	. . . of reciprocating type
11/08	. . . of rotary type
2011/081	. . . . {with axial flow, i.e. the axis of rotation being parallel to the flow direction}
2011/082	. . . . {with combined or mixed flow, i.e. the flow direction being a combination of centrifugal flow and non-centrifugal flow, e.g. centripetal or axial flow}
2011/084	. . . . {with two or more pump stages}
2011/085	. . . . {having counter-rotating impellers}
2011/087	. . . . {with radial flow}
2011/088	. . . . {using shear forces, e.g. disc pumps or Tesla pumps}
11/09	. . . by means of pressure pulses applied to a column of liquid, e.g. by ignition of an air/gas or vapour mixture
11/10	. . having means for deflecting jet or influencing cross-section thereof
11/101	. . . {having means for deflecting jet into a propulsive direction substantially parallel to the plane of the pump outlet opening}

11/102	. . . . {the inlet opening and the outlet opening of the pump being substantially coplanar}
11/103	. . . having means to increase efficiency of propulsive fluid, e.g. discharge pipe provided with means to improve the fluid flow
11/107	. . . Direction control of propulsive fluid {(B63H 11/101 takes precedence)}
11/11	. . . . with bucket or clamshell-type reversing means
11/113	. . . . Pivoted outlet
11/117	. . . . Pivoted vane
11/12	. the propulsive medium being steam or other gas
11/14	. . the gas being produced by combustion
11/16	. . the gas being produced by other chemical processes

13/00 Marine propulsion by wind motors driving water-engaging propulsive elements

15/00	Marine propulsion by use of vessel-mounted driving mechanisms co-operating with anchored chains or the like
16/00	Marine propulsion by muscle power
2016/005	. {used on vessels dynamically supported, or lifted out of the water by hydrofoils}
16/02	. Movable thwarts; Footrests
16/04	. Oars; Sculls; Paddles; Poles
2016/043	. . {Stop sleeves or collars for positioning oars in rowlocks, e.g. adjustable}
2016/046	. . {Oars for single-oar sculling, i.e. for propelling boats by swinging single stern-mounted oars from side to side; Use or arrangements thereof on boats}
16/06	. Rowlocks; Mountings therefor
2016/063	. . {Rowlocks mounted on movable support structures}
16/067	. . Rowlocks mounted on a structure extending beyond the gunwale of the vessel
16/073	. . having oar shaft restraining means
16/08	. Other apparatus for converting muscle power into propulsive effort
2016/085	. . {comprising means for transmitting muscular power applied in oscillatory or rotary manner to a rotary input shaft of a reversing transmission, e.g. alternatively allowing for ahead or astern propulsion}
16/10	. . for bow-facing rowing
16/102	. . . {by using an inverting mechanism between the handgrip and the blade, e.g. a toothed transmission}
16/105	. . . . {the mechanism having articulated rods}
16/107	. . . {by placing the fulcrum outside the segment defined by handgrip and blade}

16/12	<ul style="list-style-type: none"> . . {using hand levers, cranks, pedals, or the like, e.g. water cycles, boats propelled by boat-mounted pedal cycles} <p>WARNING</p> <p>This group is no longer used for classification of new documents as from 01.01.2012. The backlog of this group is being continuously reclassified to groups B63H 16/16 - B63H 16/20</p>	20/001	<ul style="list-style-type: none"> . {Arrangements, apparatus and methods for handling fluids used in outboard drives (for handling exhaust gas B63H 20/24; for handling cooling-water B63H 20/28; cooling outboard marine engines F01P 3/202; air intakes for outboard marine engines F02M 35/167)} <p>WARNING</p> <p>Group B63H 20/001 is incomplete pending reclassification of documents from groups B63H 21/26, B63H 21/265, and B63H 21/28. All groups listed in this Warning should be considered in order to perform a complete search.</p>
16/14	<ul style="list-style-type: none"> . . . {for propelled drive} <p>WARNING</p> <p>This group is no longer used for classification of new documents as from 01.01.2012. The backlog of this group is being continuously reclassified to groups B63H 16/16 - B63H 16/20</p>	20/002	<ul style="list-style-type: none"> . . {for handling lubrication liquids (in engines, e.g. outboard marine engines, F01M)} <p>WARNING</p> <p>Group B63H 20/002 is incomplete pending reclassification of documents from groups B63H 21/26, B63H 21/265, and B63H 21/28. All groups listed in this Warning should be considered in order to perform a complete search.</p>
16/16	<ul style="list-style-type: none"> . . using reciprocating pull cable, i.e. a strand-like member movable alternately backward and forward 		
2016/165	<ul style="list-style-type: none"> . . . {comprising means for transforming oscillating movement into rotary movement, e.g. for driving propeller shafts} 		
16/18	<ul style="list-style-type: none"> . . using sliding {or pivoting} 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 	2020/003	<ul style="list-style-type: none"> . {Arrangements of two, or more outboard propulsion units} <p>WARNING</p> <p>Group B63H 2020/003 is incomplete pending reclassification of documents from groups B63H 21/26, B63H 21/265, and B63H 21/28. All groups listed in this Warning should be considered in order to perform a complete search.</p>
2016/185	<ul style="list-style-type: none"> . . . {comprising means for transforming oscillating movement into rotary movement, e.g. for driving propeller shafts} 		
16/20	<ul style="list-style-type: none"> . . using rotary cranking arm 		
2016/202	<ul style="list-style-type: none"> . . . {specially adapted or arranged for being actuated by the feet of the user, e.g. using bicycle-like pedals} 		
2016/205	<ul style="list-style-type: none"> {making use of standard bicycles} 	2020/005	<ul style="list-style-type: none"> . {Arrangements of two or more propellers, or the like on single outboard propulsion units} <p>WARNING</p> <p>Group B63H 2020/005 is incomplete pending reclassification of documents from groups B63H 21/26, B63H 21/265, and B63H 21/28. All groups listed in this Warning should be considered in order to perform a complete search.</p>
2016/207	<ul style="list-style-type: none"> {without wheels} 		
19/00	Marine propulsion not otherwise provided for		
19/02	<ul style="list-style-type: none"> . by using energy derived from movement of ambient water, e.g. from rolling or pitching of vessels 		
19/04	<ul style="list-style-type: none"> . . propelled by water current 		
19/06	<ul style="list-style-type: none"> . by discharging gas into ambient water 		
19/08	<ul style="list-style-type: none"> . by direct engagement with water-bed or ground 		
20/00	Outboard propulsion units, e.g. outboard motors or Z-drives; Arrangements thereof on vessels	2020/006	<ul style="list-style-type: none"> . . {of coaxial type, e.g. of counter-rotative type} <p>WARNING</p> <p>Group B63H 2020/006 is incomplete pending reclassification of documents from groups B63H 21/26, B63H 21/265, and B63H 21/28. All groups listed in this Warning should be considered in order to perform a complete search.</p>
	<p>WARNING</p> <p>Group B63H 20/00 is incomplete pending reclassification of documents from groups B63H 21/26, B63H 21/265, and B63H 21/28. All groups listed in this Warning should be considered in order to perform a complete search.</p>		

20/007	<ul style="list-style-type: none"> {Trolling propulsion units (trolling plates for slowing down B63H 25/50; dynamo-electric machines of trolling units H02K)} <p><u>WARNING</u></p> <p>Group B63H 20/007 is incomplete pending reclassification of documents from groups B63H 21/26, B63H 21/265, and B63H 21/28.</p> <p>All groups listed in this Warning should be considered in order to perform a complete search.</p>	20/08	<ul style="list-style-type: none"> Means enabling movement of the position of the propulsion element, e.g. for trim, tilt or steering; Control of trim or tilt (initiating means for steering B63H 25/02) <p><u>WARNING</u></p> <p>Group B63H 20/08 is incomplete pending reclassification of documents from groups B63H 21/26, B63H 21/265, and B63H 21/28.</p> <p>All groups listed in this Warning should be considered in order to perform a complete search.</p>
2020/008	<ul style="list-style-type: none"> {Tools, specially adapted for maintenance, mounting, repair, or the like of outboard propulsion units, e.g. of outboard motors or Z-drives} <p><u>WARNING</u></p> <p>Group B63H 2020/008 is incomplete pending reclassification of documents from groups B63H 21/26, B63H 21/265, and B63H 21/28.</p> <p>All groups listed in this Warning should be considered in order to perform a complete search.</p>	20/10	<ul style="list-style-type: none"> Means enabling trim or tilt, or lifting of the propulsion element when an obstruction is hit; Control of trim or tilt <p><u>WARNING</u></p> <p>Group B63H 20/10 is incomplete pending reclassification of documents from groups B63H 21/26, B63H 21/265, and B63H 21/28.</p> <p>All groups listed in this Warning should be considered in order to perform a complete search.</p>
20/02	<ul style="list-style-type: none"> Mounting of propulsion units (B63H 20/08 takes precedence) <p><u>WARNING</u></p> <p>Group B63H 20/02 is incomplete pending reclassification of documents from groups B63H 21/26, B63H 21/265, and B63H 21/28.</p> <p>All groups listed in this Warning should be considered in order to perform a complete search.</p>	2020/103	<ul style="list-style-type: none"> {using a flexible member for enabling or controlling tilt or lifting, e.g. a cable} <p><u>WARNING</u></p> <p>Group B63H 2020/103 is incomplete pending reclassification of documents from groups B63H 21/26, B63H 21/265, and B63H 21/28.</p> <p>All groups listed in this Warning should be considered in order to perform a complete search.</p>
2020/025	<ul style="list-style-type: none"> {Sealings specially adapted for mountings of outboard drive units; Arrangements thereof, e.g. for transom penetrations} <p><u>WARNING</u></p> <p>Group B63H 2020/025 is incomplete pending reclassification of documents from groups B63H 21/26, B63H 21/265, and B63H 21/28.</p> <p>All groups listed in this Warning should be considered in order to perform a complete search.</p>	20/106	<ul style="list-style-type: none"> {Means enabling lifting of the propulsion element in a substantially vertical, linearly sliding movement} <p><u>WARNING</u></p> <p>Group B63H 20/106 is incomplete pending reclassification of documents from groups B63H 21/26, B63H 21/265, and B63H 21/28.</p> <p>All groups listed in this Warning should be considered in order to perform a complete search.</p>
20/04	<ul style="list-style-type: none"> in a well <p><u>WARNING</u></p> <p>Group B63H 20/04 is incomplete pending reclassification of documents from groups B63H 21/26, B63H 21/265, and B63H 21/28.</p> <p>All groups listed in this Warning should be considered in order to perform a complete search.</p>	20/12	<ul style="list-style-type: none"> Means enabling steering <p><u>WARNING</u></p> <p>Group B63H 20/12 is incomplete pending reclassification of documents from groups B63H 21/26, B63H 21/265, and B63H 21/28.</p> <p>All groups listed in this Warning should be considered in order to perform a complete search.</p>
20/06	<ul style="list-style-type: none"> on an intermediate support <p><u>WARNING</u></p> <p>Group B63H 20/06 is incomplete pending reclassification of documents from groups B63H 21/26, B63H 21/265, and B63H 21/28.</p> <p>All groups listed in this Warning should be considered in order to perform a complete search.</p>		

20/14	<ul style="list-style-type: none"> Transmission between propulsion power unit and propulsion element <p><u>WARNING</u></p> <p>Group B63H 20/14 is incomplete pending reclassification of documents from groups B63H 21/26, B63H 21/265, and B63H 21/28.</p> <p>All groups listed in this Warning should be considered in order to perform a complete search.</p>	20/22	<ul style="list-style-type: none"> allowing movement of the propulsion element about at least a horizontal axis without disconnection of the drive, e.g. using universal joints <p><u>WARNING</u></p> <p>Group B63H 20/22 is incomplete pending reclassification of documents from groups B63H 21/26, B63H 21/265, and B63H 21/28.</p> <p>All groups listed in this Warning should be considered in order to perform a complete search.</p>
2020/145	<ul style="list-style-type: none"> {comprising means for permitting telescoping movement of components of the outboard propulsion unit, e.g. telescoping movement of power leg} <p><u>WARNING</u></p> <p>Group B63H 2020/145 is incomplete pending reclassification of documents from groups B63H 21/26, B63H 21/265, and B63H 21/28.</p> <p>All groups listed in this Warning should be considered in order to perform a complete search.</p>	20/24	<ul style="list-style-type: none"> {Arrangements, apparatus and methods for handling exhaust gas in outboard drives, e.g.} exhaust gas outlets {(in engines, e.g. outboard marine engines, F01N)} <p><u>WARNING</u></p> <p>Group B63H 20/24 is incomplete pending reclassification of documents from groups B63H 21/26, B63H 21/265, and B63H 21/28.</p> <p>All groups listed in this Warning should be considered in order to perform a complete search.</p>
20/16	<ul style="list-style-type: none"> allowing movement of the propulsion element in a horizontal plane only, e.g. for steering <p><u>WARNING</u></p> <p>Group B63H 20/16 is incomplete pending reclassification of documents from groups B63H 21/26, B63H 21/265, and B63H 21/28.</p> <p>All groups listed in this Warning should be considered in order to perform a complete search.</p>	20/245	<ul style="list-style-type: none"> {Exhaust gas outlets (B63H 20/26 takes precedence)} <p><u>WARNING</u></p> <p>Group B63H 20/245 is incomplete pending reclassification of documents from groups B63H 21/26, B63H 21/265, and B63H 21/28.</p> <p>All groups listed in this Warning should be considered in order to perform a complete search.</p>
20/18	<ul style="list-style-type: none"> allowing movement of the propulsion element about a longitudinal axis, e.g. the through transom shaft (B63H 20/22 takes precedence) <p><u>WARNING</u></p> <p>Group B63H 20/18 is incomplete pending reclassification of documents from groups B63H 21/26, B63H 21/265, and B63H 21/28.</p> <p>All groups listed in this Warning should be considered in order to perform a complete search.</p>	20/26	<ul style="list-style-type: none"> {Exhaust gas outlets} passing through the propeller or its hub <p><u>WARNING</u></p> <p>Group B63H 20/26 is incomplete pending reclassification of documents from groups B63H 21/26, B63H 21/265, and B63H 21/28.</p> <p>All groups listed in this Warning should be considered in order to perform a complete search.</p>
20/20	<ul style="list-style-type: none"> with provision for reverse drive <p><u>WARNING</u></p> <p>Group B63H 20/20 is incomplete pending reclassification of documents from groups B63H 21/26, B63H 21/265, and B63H 21/28.</p> <p>All groups listed in this Warning should be considered in order to perform a complete search.</p>	20/28	<ul style="list-style-type: none"> {Arrangements, apparatus and methods for handling cooling-water in outboard drives, e.g.} cooling-water intakes {(cooling circuits for outboard marine engines F01P 3/202)} <p><u>WARNING</u></p> <p>Group B63H 20/28 is incomplete pending reclassification of documents from groups B63H 21/26, B63H 21/265, and B63H 21/28.</p> <p>All groups listed in this Warning should be considered in order to perform a complete search.</p>

20/285	<ul style="list-style-type: none"> • {Cooling-water intakes (B63H 20/28 takes precedence)} <p>WARNING</p> <p>Group B63H 20/285 is incomplete pending reclassification of documents from groups B63H 21/26, B63H 21/265, and B63H 21/28.</p> <p>All groups listed in this Warning should be considered in order to perform a complete search.</p>	20/34	<ul style="list-style-type: none"> • comprising stabilising fins {, foils, anticavitation plates, splash plates, or rudders (rudders carrying propellers B63H 25/42; rudders carrying jets B63H 25/46)} <p>WARNING</p> <p>Group B63H 20/34 is incomplete pending reclassification of documents from groups B63H 21/26, B63H 21/265, and B63H 21/28.</p> <p>All groups listed in this Warning should be considered in order to perform a complete search.</p>
20/30	<ul style="list-style-type: none"> • {Cooling-water intakes} for flushing {(circuits for flushing outboard marine engines F01P 3/205)} <p>WARNING</p> <p>Group B63H 20/30 is incomplete pending reclassification of documents from groups B63H 21/26, B63H 21/265, and B63H 21/28.</p> <p>All groups listed in this Warning should be considered in order to perform a complete search.</p>	20/36	<ul style="list-style-type: none"> • Transporting or testing stands {(hand carts for transporting outboard units B62B; measuring torque G01L 3/00, measuring thrust of propellers G01L 5/133, testing in general G01M); Use of outboard propulsion units as pumps}; Protection of power legs {, e.g. when not in use} <p>WARNING</p> <p>Group B63H 20/36 is incomplete pending reclassification of documents from groups B63H 21/26, B63H 21/265, and B63H 21/28.</p> <p>All groups listed in this Warning should be considered in order to perform a complete search.</p>
20/32	<ul style="list-style-type: none"> • Housings {(air intakes for outboard engines F02M 35/167)} <p>WARNING</p> <p>Group B63H 20/32 is incomplete pending reclassification of documents from groups B63H 21/26, B63H 21/265, and B63H 21/28.</p> <p>All groups listed in this Warning should be considered in order to perform a complete search.</p>	21/00	<p>Use of propulsion power plant or units on vessels</p> <p>NOTE</p> <p>This group comprises arrangements of propulsion power plant or units on vessels and to some extent it includes adaptations of such plant or units to facilitate such arrangements</p>
2020/323	<ul style="list-style-type: none"> • {Gear cases} <p>WARNING</p> <p>Group B63H 2020/323 is incomplete pending reclassification of documents from groups B63H 21/26, B63H 21/265, and B63H 21/28.</p> <p>All groups listed in this Warning should be considered in order to perform a complete search.</p>	2021/003	<ul style="list-style-type: none"> • {the power plant using fuel cells for energy supply or accumulation, e.g. for buffering photovoltaic energy}
2020/326	<ul style="list-style-type: none"> • {having a dividing plane substantially in plane with the axes of the transmission shafts} <p>WARNING</p> <p>Group B63H 2020/326 is incomplete pending reclassification of documents from groups B63H 21/26, B63H 21/265, and B63H 21/28.</p> <p>All groups listed in this Warning should be considered in order to perform a complete search.</p>	2021/006	<ul style="list-style-type: none"> • {the vessel being driven by hot gas positive-displacement engine plants of closed-cycle type, e.g. Stirling engines}
		21/02	<ul style="list-style-type: none"> • the vessels being steam-driven (B63H 21/18 takes precedence)
		21/04	<ul style="list-style-type: none"> • relating to positive-displacement steam engines
		21/06	<ul style="list-style-type: none"> • relating to steam turbines
		21/08	<ul style="list-style-type: none"> • relating to steam boilers
		21/10	<ul style="list-style-type: none"> • relating to condensers or engine-cooling fluid heat-exchangers
		21/12	<ul style="list-style-type: none"> • the vessels being motor-driven (B63H 21/175, B63H 21/18 take precedence; {cooling circuits with liquid-to-liquid heat-exchange relative to marine vessels F01P 3/207}) <p>WARNING</p> <p>Group B63H 21/12 is no longer used for classification of vessels being motor-driven by electric motor, powered by land vehicle supported by vessel, and powered by nuclear energy. These documents are in the process of being reorganised to groups B63H 21/17, B63H 21/175, and B63H 21/18 respectively</p>
		21/14	<ul style="list-style-type: none"> • relating to internal-combustion engines {(of outboard type B63H 20/00)}
		21/16	<ul style="list-style-type: none"> • relating to gas turbines

- 21/165 . . by hydraulic fluid motor, i.e. wherein a liquid under pressure is utilised to rotate the propelling means {(transmission from power plant or unit to propeller using fluid gearing [per se B63H 23/26](#))}
- 21/17 . . by electric motor
- 2021/171 . . . {making use of photovoltaic energy conversion, e.g. using solar panels}
- 2021/173 . . . {making use of superconductivity}
- 21/175 . the vessel being powered by land vehicle supported by vessel
- 21/18 . the vessels being powered by nuclear energy
- 21/20 . the vessels being powered by combinations of different types of propulsion units
- 2021/202 . . {of hybrid electric type}
- 2021/205 . . . {the second power unit being of the internal combustion engine type, or the like, e.g. a Diesel engine}
- 2021/207 . . . {the second power unit being a gas turbine}
- 21/21 . Control means for engine or transmission, specially adapted for use on marine vessels
- 21/213 . . {Levers or the like for controlling the engine or the transmission, e.g. single hand control levers}
- 2021/216 . . {using electric control means}
- 21/22 . the propulsion power units being controlled from exterior of engine room, e.g. from navigation bridge; Arrangements of order telegraphs
- 21/24 . {the vessels being small craft, e.g. racing boats}
- 21/26 . . {of outboard type; Outboard propulsion power units movably installed for steering, reversing, tilting, or the like (transom panels for outboard motors for inflatable boats [B63B 7/087](#); floating propeller units [B63B 35/665](#))}

(Frozen)

WARNING

Group [B63H 21/26](#) is no longer used for the classification of documents as of May 1, 2020.

The content of this group is being reclassified into groups [B63H 5/125](#), [B63H 5/1252](#), [B63H 2005/1254](#), [B63H 2005/1256](#), [B63H 2005/1258](#), [B63H 20/00](#), [B63H 20/001](#), [B63H 20/002](#), [B63H 2020/003](#), [B63H 2020/005](#), [B63H 2020/006](#), [B63H 2020/007](#), [B63H 2020/008](#), [B63H 20/02](#), [B63H 2020/025](#), [B63H 20/04](#), [B63H 20/06](#), [B63H 20/08](#), [B63H 20/10](#), [B63H 2020/103](#), [B63H 20/106](#), [B63H 20/12](#), [B63H 20/14](#), [B63H 2020/145](#), [B63H 20/16](#), [B63H 20/18](#), [B63H 20/20](#), [B63H 20/22](#), [B63H 20/24](#), [B63H 20/245](#), [B63H 20/26](#), [B63H 20/28](#), [B63H 20/285](#), [B63H 20/30](#), [B63H 20/32](#), [B63H 2020/323](#), [B63H 2020/326](#), [B63H 20/34](#), [B63H 20/36](#), [B63H 25/42](#), and [B63H 2025/425](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 21/265 . . . {Steering or control devices for outboards (steering by rudders [B63H 25/06](#); control handles for boats [B63H 21/213](#))}

(Frozen)

WARNING

Group [B63H 21/265](#) is no longer used for the classification of documents as of May 1, 2020.

The content of this group is being reclassified into groups [B63H 5/125](#), [B63H 5/1252](#), [B63H 2005/1254](#), [B63H 2005/1256](#), [B63H 2005/1258](#), [B63H 20/00](#), [B63H 20/001](#), [B63H 20/002](#), [B63H 2020/003](#), [B63H 2020/005](#), [B63H 2020/006](#), [B63H 20/007](#), [B63H 2020/008](#), [B63H 20/02](#), [B63H 2020/025](#), [B63H 20/04](#), [B63H 20/06](#), [B63H 20/08](#), [B63H 20/10](#), [B63H 2020/103](#), [B63H 20/106](#), [B63H 20/12](#), [B63H 20/14](#), [B63H 2020/145](#), [B63H 20/16](#), [B63H 20/18](#), [B63H 20/20](#), [B63H 20/22](#), [B63H 20/24](#), [B63H 20/245](#), [B63H 20/26](#), [B63H 20/28](#), [B63H 20/285](#), [B63H 20/30](#), [B63H 20/32](#), [B63H 2020/323](#), [B63H 2020/326](#), [B63H 20/34](#), [B63H 20/36](#), [B63H 25/42](#), and [B63H 2025/425](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 21/28 . . . {Arrangements of transmission between propulsion power unit and propulsive element}

(Frozen)

WARNING

Group [B63H 21/28](#) is no longer used for the classification of documents as of May 1, 2020.

The content of this group is being reclassified into groups [B63H 5/125](#), [B63H 5/1252](#), [B63H 2005/1254](#), [B63H 2005/1256](#), [B63H 2005/1258](#), [B63H 20/00](#), [B63H 20/001](#), [B63H 20/002](#), [B63H 2020/003](#), [B63H 2020/005](#), [B63H 2020/006](#), [B63H 20/007](#), [B63H 2020/008](#), [B63H 20/02](#), [B63H 2020/025](#), [B63H 20/04](#), [B63H 20/06](#), [B63H 20/08](#), [B63H 20/10](#), [B63H 2020/103](#), [B63H 20/106](#), [B63H 20/12](#), [B63H 20/14](#), [B63H 2020/145](#), [B63H 20/16](#), [B63H 20/18](#), [B63H 20/20](#), [B63H 20/22](#), [B63H 20/24](#), [B63H 20/245](#), [B63H 20/26](#), [B63H 20/28](#), [B63H 20/285](#), [B63H 20/30](#), [B63H 20/32](#), [B63H 2020/323](#), [B63H 2020/326](#), [B63H 20/34](#), [B63H 20/36](#), [B63H 25/42](#), and [B63H 2025/425](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 21/30 . . Mounting of propulsion plant or unit, e.g. for anti-vibration purposes (hull reinforcements therefor [B63B 3/70](#))
- 21/302 . . {with active vibration damping}
- 21/305 . . {with passive vibration damping}

2021/307	. . {Arrangements, or mountings of propulsion power plant elements in modular propulsion power units, e.g. using containers}	2023/065	. . . . {having means for differentially varying the speed of the main transmitting elements, e.g. of the drive shafts}
21/32	. Arrangements of propulsion power-unit exhaust uptakes; Funnels peculiar to vessels	2023/067	. . . . {the elements being formed by two or more coaxial shafts, e.g. counter-rotating shafts}
21/34	. . having exhaust-gas deflecting means	23/08	. . with provision for reversing drive
21/36	. Covers or casing arranged to protect plant or unit from marine environment	23/10	. . for transmitting drive from more than one propulsion power unit
21/38	. 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 (in outboard drives B63H 20/001 ;) lubricating or cooling machines or engines in general F01 - F04)	23/12	. . . allowing combined use of the propulsion power units
21/383	. . {for handling cooling-water (in outboard drives B63H 20/28 ; in machines or engines in general F01P 3/00)}	23/14	. . . . with unidirectional drive or where reversal is immaterial
21/386	. . {for handling lubrication liquids (in machines or engines in general F01M)}	23/16	. . . . characterised by provision of reverse drive
23/00	Transmitting power from propulsion power plant to propulsive elements (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)	23/18	. . . for alternative use of the propulsion power units
2023/005	. {using a drive acting on the periphery of a rotating propulsive element, e.g. on a dented circumferential ring on a propeller, or a propeller acting as rotor of an electric motor}	23/20	. . . . with separate forward and astern propulsion power units, e.g. turbines
23/02	. with mechanical gearing	23/22	. with non-mechanical gearing
2023/0208	. . {by means of endless flexible members}	23/24	. . electric (dynamo-electric machines H02K)
2023/0216	. . . {by means of belts, or the like}	2023/245	. . . {with two or more electric motors directly acting on a single drive shaft, e.g. plurality of electric rotors mounted on one common shaft, or plurality of electric motors arranged coaxially one behind the other with rotor shafts coupled together}
2023/0225	. . . . {of grooved belts, i.e. with one or more grooves in longitudinal direction of the belt}	23/26	. . fluid
2023/0233	. . . . {of belts having a toothed contact surface, or regularly spaced bosses, or hollows for slip-less or nearly slip-less meshing with complementary profiled contact surface of a pulley}	23/28	. with synchronisation of propulsive elements
2023/0241	. . . . {of V-belts, i.e. belts of tapered cross section}	23/30	. characterised by use of clutches
2023/025	. . . {by means of chains}	2023/305	. . {using fluid or semifluid as power transmitting means}
2023/0258	. . {comprising gearings with variable gear ratio, other than reversing drives or trolling drives}	23/32	. Other parts
2023/0266	. . . {comprising gearings with automatically variable gear ratio, other than continuously variable transmissions or trolling drives}	23/321	. . {Bearings or seals specially adapted for propeller shafts}
2023/0275	. . . {comprising means for conveying rotary motion with continuously variable gear ratio, e.g. continuously variable transmissions using endless flexible members}	2023/322	. . . {Intermediate propeller shaft bearings, e.g. with provisions for shaft alignment}
2023/0283	. . {using gears having orbital motion}	2023/323	. . . {Bearings for coaxial propeller shafts, e.g. for driving propellers of the counter-rotative type}
2023/0291	. . {Trolling gears, i.e. mechanical power transmissions comprising controlled slip clutches, e.g. for low speed propulsion}	2023/325	. . . {Thrust bearings, i.e. axial bearings for propeller shafts}
23/04	. . the main transmitting element, e.g. shaft, being substantially vertical	23/326	. . . {Water lubricated bearings}
23/06	. . for transmitting drive from a single propulsion power unit	2023/327	. . . {Sealings specially adapted for propeller shafts or stern tubes}
2023/062	. . . {comprising means for simultaneously driving two or more main transmitting elements, e.g. drive shafts}	2023/328	. . {Marine transmissions characterised by the use of brakes, other than propeller shaft brakes; Brakes therefor}
		23/34	. . Propeller shafts; Paddle-wheel shafts; Attachment of propellers on shafts
		2023/342	. . . {comprising couplings, e.g. resilient couplings; Couplings therefor}
		2023/344	. . . {comprising flexible shafts members}
		2023/346	. . . {comprising hollow shaft members}
		2023/348	. . . {with turning or inching gear, i.e. with means for slowly rotating, or for angularly positioning of shafts or propulsive elements mounted thereon}
		23/35	. . . 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
		23/36	. . Shaft tubes

25/00	Steering; Slowing-down otherwise than by use of propulsive elements (using movably-installed outboard propulsion units B63H 20/00); Dynamic anchoring, i.e. positioning vessels by means of main or auxiliary propulsive elements	2025/388	<ul style="list-style-type: none"> . . . {with varying angle of attack over the height of the rudder blade, e.g. twisted rudders}
2025/005	<ul style="list-style-type: none"> . {Steering specially adapted for towing trains, tug-barge systems, or the like; Equipment or accessories therefor} 	25/40	<ul style="list-style-type: none"> . . . using Magnus effect
25/02	<ul style="list-style-type: none"> . Initiating means for steering {, for slowing down, otherwise than by use of propulsive elements, or for dynamic anchoring} 	25/42	<ul style="list-style-type: none"> . 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
2025/022	<ul style="list-style-type: none"> . . {Steering wheels; Posts for steering wheels} 		<u>WARNING</u>
2025/024	<ul style="list-style-type: none"> . . {Handle-bars; Posts for supporting handle-bars, e.g. adjustable posts} 		Group B63H 25/42 is incomplete pending reclassification of documents from groups B63H 21/26 , B63H 21/265 , and B63H 21/28 .
2025/026	<ul style="list-style-type: none"> . . {using multi-axis control levers, or the like, e.g. joysticks, wherein at least one degree of freedom is employed for steering, slowing down, or dynamic anchoring} 		All groups listed in this Warning should be considered in order to perform a complete search.
2025/028	<ul style="list-style-type: none"> . . {using remote control means, e.g. wireless control; Equipment or accessories therefor} 	2025/425	<ul style="list-style-type: none"> . . {Propulsive elements, other than jets, substantially used for steering or dynamic anchoring only, with means for retracting, or otherwise moving to a rest position outside the water flow around the hull}
25/04	<ul style="list-style-type: none"> . . automatic, e.g. reacting to compass 		<u>WARNING</u>
2025/045	<ul style="list-style-type: none"> . . . {making use of satellite radio beacon positioning systems, e.g. the Global Positioning System [GPS]} 		Group B63H 2025/425 is incomplete pending reclassification of documents from groups B63H 21/26 , B63H 21/265 , and B63H 21/28 .
25/06	<ul style="list-style-type: none"> . Steering by rudders (by rudders carrying propellers B63H 25/42) 		All groups listed in this Warning should be considered in order to perform a complete search.
2025/063	<ul style="list-style-type: none"> . . {Arrangements of rudders forward of the propeller position, e.g. of backing rudders; Arrangements of rudders on the forebody of the hull; Steering gear therefor} 	25/44	<ul style="list-style-type: none"> . Steering or slowing-down by extensible flaps or the like
2025/066	<ul style="list-style-type: none"> . . {Arrangements of two or more rudders; Steering gear therefor} 	25/46	<ul style="list-style-type: none"> . Steering or dynamic anchoring by jets {or by rudders carrying jets (steering or dynamic anchoring by deflecting or directing main propulsion jets B63H 11/00)}
25/08	<ul style="list-style-type: none"> . . Steering gear 	2025/465	<ul style="list-style-type: none"> . . {Jets or thrusters substantially used for steering or dynamic anchoring only, with means for retracting, or otherwise moving to a rest position outside the water flow around the hull}
25/10	<ul style="list-style-type: none"> . . . with mechanical transmission 	25/48	<ul style="list-style-type: none"> . Steering or slowing-down by deflection of propeller slipstream otherwise than by rudder
25/12	<ul style="list-style-type: none"> . . . with fluid transmission 	25/50	<ul style="list-style-type: none"> . Slowing-down means not otherwise provided for
25/14	<ul style="list-style-type: none"> . . . power assisted; power driven, i.e. using steering engine 	25/52	<ul style="list-style-type: none"> . Parts for steering not otherwise provided for
25/16	<ul style="list-style-type: none"> with alternative muscle or power operated steering 		
25/18	<ul style="list-style-type: none"> Transmitting of movement of initiating means to steering engine 		
25/20	<ul style="list-style-type: none"> by mechanical means 		
25/22	<ul style="list-style-type: none"> by fluid means 		
25/24	<ul style="list-style-type: none"> by electrical means 		
25/26	<ul style="list-style-type: none"> Steering engines 		
25/28	<ul style="list-style-type: none"> of fluid type 		
25/30	<ul style="list-style-type: none"> hydraulic 		
25/32	<ul style="list-style-type: none"> steam 		
25/34	<ul style="list-style-type: none"> Transmitting of movement of engine to rudder, e.g. using quadrants, brakes 		
25/36	<ul style="list-style-type: none"> . . Rudder-position indicators 		
25/38	<ul style="list-style-type: none"> . . Rudders 		
25/381	<ul style="list-style-type: none"> . . . {with flaps} 		
25/382	<ul style="list-style-type: none"> . . . {movable otherwise than for steering purposes; Changing geometry} 		
25/383	<ul style="list-style-type: none"> {with deflecting means able to reverse the water stream direction} 		
2025/384	<ul style="list-style-type: none"> {with means for retracting or lifting} 		
2025/385	<ul style="list-style-type: none"> {by pivoting} 		
2025/386	<ul style="list-style-type: none"> {by sliding, e.g. telescopic} 		
2025/387	<ul style="list-style-type: none"> . . . {comprising two or more rigidly interconnected mutually spaced blades pivotable about a common rudder shaft, e.g. parallel twin blades mounted on a pivotable supporting frame} 		