

Title (en)

Propulsion and steering module for naval craft

Title (de)

Antriebs- und Steuerungsmodul für Kriegsschiffe

Title (fr)

Module de propulsion et de gouverne pour navires de guerre

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Application

**EP 98204306 A 19981218**

Priority

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Abstract (en)

The present invention concerns a propulsion and steering module for naval craft that has the distinctive characteristic of including an innovative cooling system in which the cooling liquid circulates in the inner casing of the motor (11) without being in contact with the moving or live parts of the motor itself. The liquid is cooled using at least one heat exchanger (21) mounted in at least one end of the module. <IMAGE>

IPC 1-7

**B63H 5/125**; **B63H 23/24**; **B63H 21/12**; **F01P 3/20**

IPC 8 full level

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Citation (applicant)

- CA 1311657 A
- US 5417597 A 19950523 - LEVEDAHL WILLIAM J [US]
- US 5632658 A 19970527 - CHEN BENJAMIN Y-H [US], et al
- DE 29619385 U1 19970313 - SCHOTTEL WERFT [DE]
- EP 0590867 A1 19940406 - KVAERNER MASA YARDS OY [FI]
- P. ANDERSON, U GRAGEN: "new type of permanent field machines for diesel electric propulsion systems. ( aes 97 - paris 13.14 march 1997)", March 1997
- M RADAELLI, L SOZZI, P. ERHART: "novel technologies with pm-machines for ship propulsion (aes 97- paris. 13.14 march 1997)", March 1997

Citation (search report)

- [YA] US 2714866 A 19550809 - PLEUGER FRIEDRICH W, et al
- [Y] WO 9420362 A1 19940915 - BRANDT LENNART [SE]
- [Y] US 4831297 A 19890516 - TAYLOR OWEN S [US], et al
- [A] US 5397954 A 19950314 - BESSON ALAIN [FR]
- [AD] EP 0590867 A1 19940406 - KVAERNER MASA YARDS OY [FI]
- [A] DE 19627323 A1 19980102 - SIEMENS AG [DE]
- [A] DE 877254 C 19550131 - PLEUGER K G
- [AD] ANDERSEN: "New type of permanent field machines for diesel electric propulsion systems", SOCIÉTÉ DEL ELECTRICIENS ET DES ELECTRONICIENS, 13 March 1997 (1997-03-13) - 14 March 1997 (1997-03-14), Paris, France, pages 1 - 4, XP000198528

Cited by

CN113615053A; EP1366984A1; FR2823178A1; FR2815485A1; EP1810920A1; EP2824027A1; US6846209B2; US6582257B1; EP1320173A3; FR2823177A1; EP2420443A1; CN110053708A; EP2896557A1; CN108298053A; EP3599156A1; CN110775235A; GB2412358A; GB2412358B; US7189126B2; GB2378691A; GB2378691B; EP1959544A3; DE102015218896B4; US6676463B2; US11091241B2; US7186156B2; US9663210B2; WO2004101356A1; WO02057133A3; WO0154973A1; WO03015241A1; WO2009127774A1; US7163426B2; US7198528B2; US7029339B2; US7061147B2; US9505478B2; US7452251B2; US9902478B2; US11383808B2; WO03023941A1; WO03026097A1; WO03019759A3; WO2020189967A1

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