

Title (en)
DUAL PROPELLER PROPULSION SYSTEM FOR A WATER CRAFT

Title (de)
DOPPELPROPELLER-ANTRIEB FÜR WASSERFAHRZEUGE

Title (fr)
SYSTEME DE PROPULSION A DOUBLE HELICE POUR NAVIRES

Publication
EP 0935553 A1 19990818 (DE)

Application
EP 97950145 A 19971107

Priority
• DE 29619385 U 19961107
• DE 19648417 A 19961122
• DE 29707028 U 19970418
• EP 9706207 W 19971107

Abstract (en)
[origin: WO9819907A1] Dual propeller propulsion system for water crafts having two propellers (3, 4) fitted in the same axis outside the ends of an underwater housing (2) configured as a gondola so as to facilitate flow, said housing being placed under the hull of the water craft having a driving mechanism lodged in the underwater housing for both propellers (3, 4) to which the energy coming out for both propellers (3, 4) to which the energy coming out of the hull of the water craft is guided by means of a housing shank (18), one of the ends of which is mounted on the hull (24) of the water craft while the other is mounted in the underwater housing (2). Said propulsion system is characterized in that the underwater housing (2) forms part of a control device (20) by means of which the water jet coming out with increased energy from the front propeller (3) in the direction of travel of the water craft is guided with minimal energy loss and optimal irrotational flow to the back propeller (4) placed in the other end of the underwater housing in the direction of travel of the water craft. Both propellers (3, 4) are driven by the driving mechanism placed in the underwater housing in the same direction of rotation and are configured in the area of the respective water jet cross section in such a way that the differing flow energy entering both propellers (3, 4) is optimally used.

IPC 1-7
B63H 5/10; **B63H 5/14**; **B63H 1/28**; **B63H 23/00**

IPC 8 full level
B63H 5/08 (2006.01); **B63H 5/10** (2006.01); **B63H 5/125** (2006.01); **B63H 23/24** (2006.01); **B63H 25/42** (2006.01)

CPC (source: EP KR)
B63H 5/08 (2013.01 - EP); **B63H 5/10** (2013.01 - EP KR); **B63H 5/125** (2013.01 - EP); **B63H 21/17** (2013.01 - EP); **B63H 23/24** (2013.01 - EP); **B63H 25/42** (2013.01 - EP); **B63H 2005/103** (2013.01 - EP); **B63H 2005/1258** (2013.01 - EP)

Citation (search report)
See references of WO 9819907A1

Cited by
CN109863082A; DE102004008805A1; DE102004008805B4

Designated contracting state (EPC)
BE DE DK ES FI FR GB GR IE IT NL PT SE

DOCDB simple family (publication)
WO 9819907 A1 19980514; CA 2271034 A1 19980514; CA 2271034 C 20040622; CN 1080677 C 20020313; CN 1236347 A 19991124; DK 0935553 T3 20020128; EP 0935553 A1 19990818; EP 0935553 B1 20010919; ES 2163204 T3 20020116; HK 1023971 A1 20000929; JP 2000515095 A 20001114; JP 3214568 B2 20011002; KR 100306261 B1 20010924; KR 20000053042 A 20000825; NO 324212 B1 20070910; NO 992215 D0 19990506; NO 992215 L 19990506; PT 935553 E 20020328

DOCDB simple family (application)
EP 9706207 W 19971107; CA 2271034 A 19971107; CN 97199553 A 19971107; DK 97950145 T 19971107; EP 97950145 A 19971107; ES 97950145 T 19971107; HK 00103085 A 20000524; JP 52107598 A 19971107; KR 19997003942 A 19990504; NO 992215 A 19990506; PT 97950145 T 19971107