

Title (en)

Coupling head, coupling device with coupling head, rendezvous head that can be connected to it, rendezvous device with rendezvous head, submarine vehicle with the same, coupling system, coupling method and operating procedure for a submarine vehicle

Title (de)

Kopplungskopf, Kopplungseinrichtung mit Kopplungskopf, daran ankoppelbarer Rendezvouskopf, Rendezvouseinrichtung mit Rendezvouskopf, Unterwasserfahrzeug damit, Kopplungssystem, Kopplungsverfahren und Einsatzverfahren für ein Unterwasserfahrzeug

Title (fr)

Tête d'accouplement, dispositif d'accouplement équipé d'une tête d'accouplement, tête de rendez-vous pouvant y être raccordée, dispositif de rendez-vous doté d'une tête de rendez-vous, véhicule submersible en étant équipé, système d'accouplement, procédé d'accouplement et procédé d'utilisation d'un véhicule submersible

Publication

EP 2471707 A3 20180307 (DE)

Application

EP 11195753 A 20111227

Priority

DE 102010056539 A 20101229

Abstract (en)

[origin: EP2471707A2] The coupling head (8) has a position stabilization unit (12) installed below water surface to stabilize alignment and positioning of the coupling head in water e.g. sea water and inland water. The stabilization unit has a controllable drive (14) for active alignment and positioning of the coupling head in water. A part of a two-part coupling mechanism couples a rendezvous head (18) with the coupling head in a force-and/or form-fit manner. A power transmission interface and a data transmission interface are separably connected with the rendezvous head by the coupling mechanism. Independent claims are also included for the following: (1) a coupling device (2) a rendezvous device (3) a method for coupling a coupling head with a rendezvous head (4) a method for utilization of an autonomous submarine vehicle.

IPC 8 full level

B63B 27/16 (2006.01); **B63G 8/00** (2006.01); **B63C 11/42** (2006.01)

CPC (source: EP US)

B63G 8/001 (2013.01 - EP US); **B63B 2027/165** (2013.01 - EP US); **B63G 2008/002** (2013.01 - EP US); **B63G 2008/004** (2013.01 - EP US); **B63G 2008/008** (2013.01 - EP US)

Citation (search report)

- [X] WO 0121476 A1 20010329 - COFLEXIP [FR], et al
- [X] US 7854569 B1 20101221 - STENSON RYAN MICHAEL [US], et al
- [XI] US 6854410 B1 20050215 - KING RUSSELL [US], et al
- [X] US 6362875 B1 20020326 - BURKLEY RODGER E [US]

Cited by

EP4098543A1; GB2607312A; CN114291230A; WO2017045671A1; WO2022254184A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 2471707 A2 20120704; **EP 2471707 A3 20180307**; DE 102010056539 A1 20120705; US 2012167814 A1 20120705; US 8757083 B2 20140624

DOCDB simple family (application)

EP 11195753 A 20111227; DE 102010056539 A 20101229; US 201113340222 A 20111229