

Title (en)

Method for storing and deploying submersibles in a submarine

Title (de)

Vorrichtung zum Lagern und Ausbringen von Tauchkörpern in einem Unterseeboot

Title (fr)

Dispositif destiné au stockage et à l'extraction de plongeurs dans un submersible

Publication

EP 1950521 B1 20151021 (DE)

Application

EP 07024874 A 20071221

Priority

DE 102007004178 A 20070127

Abstract (en)

[origin: EP1950521A1] The device has a depth charger dropping device and a tube-shaped storing container (2) for a depth charger (4) arranged outside a pressure hull. The storing container forms a pressure resistant chamber that withstands pressure encountered in immersion. The depth charger dropping device has a piston movably guided in a cylinder. A movement path of the piston is limited in the cylinder by a supporting tube.

IPC 8 full level

F41F 3/10 (2006.01); **B63G 3/02** (2006.01); **B63G 8/32** (2006.01)

CPC (source: EP KR)

B63G 8/32 (2013.01 - EP); **B63G 9/02** (2013.01 - KR); **F41F 3/10** (2013.01 - EP)

Citation (opposition)

Opponent : DCNS

- EP 0526831 A1 19930210 - HOWALDTSWERKE DEUTSCHE WERFT [DE]
- EP 0701101 A1 19960313 - FRANCE ETAT [FR]
- DE 3209401 A1 19831006 - LICENTIA GMBH [DE]
- EP 0295600 A2 19881221 - HOWALDTSWERKE DEUTSCHE WERFT [DE]
- US 5370033 A 19941206 - BITSAKIS NICHOLAS [US], et al
- DE 10324180 B3 20040930 - NORDSEEWERKE GMBH [DE]
- US 2004031381 A1 20040219 - WILLIAMS MICHAEL W [US], et al
- US 7032530 B1 20060425 - ANSAY MICHAEL T [US], et al
- US 6854409 B1 20050215 - GALLIANO CARLOS E [US]
- DE 3723817 A1 19890126 - WIESER DR RUDOLF [DE]
- US 6834608 B1 20041228 - ANSAY MICHAEL T [US], et al
- US 5363791 A 19941115 - STALLARD III CLINTON W [US]
- US 4854260 A 19890808 - WOIDICH RICHARD [DE], et al
- EP 0151980 A2 19850821 - MAK MASCHINENBAU KRUPP [DE]
- US 5099745 A 19920331 - HUBBELL RICHARD F [US], et al
- US 1347105 A 19200720 - LE MESURIER LOUIS JOHN
- CLAUDE HUAN: "Les sous-marins français : 1918 - 1945", pages: 49 - 58, XP055295695
- "L'encyclopédie des sous-marins français : D'une guerre à l'autre", BIBLIOTHÈQUE NATIONALE DE FRANCE, 22 April 2011 (2011-04-22), pages 145 - 153, XP055296894

Cited by

DE102012207710B4; FR3006664A1; AU2014276761B2; WO2014195487A1; WO2021151791A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

EP 1950521 A1 20080730; EP 1950521 B1 20151021; EP 1950521 B2 20181003; DE 102007004178 A1 20080731;
DE 102007004178 B4 20090129; ES 2556219 T3 20160114; ES 2556219 T5 20190306; KR 101032063 B1 20110502;
KR 20080070799 A 20080731; PL 1950521 T3 20160429; PL 1950521 T5 20190228

DOCDB simple family (application)

EP 07024874 A 20071221; DE 102007004178 A 20070127; ES 07024874 T 20071221; KR 20080005026 A 20080116; PL 07024874 T 20071221