

Title (en)  
DEVICE FOR AUTOMATICALLY ATTACHING AND DETACHING A TOWED SONAR TRANSMITTER TO AND FROM AN ACTIVE-SONAR TOW LINE

Title (de)  
VORRICHTUNG ZUM AUTOMATISCHEN BEFESTIGEN UND LÖSEN EINES GESCHLEPPTEN SONARSENDERS AN UND VON EINER AKTIVEN SONARSCHLEPPLEINE

Title (fr)  
DISPOSITIF POUR L'ARRIMAGE ET LE DESARRIMAGE AUTOMATIQUE D'UN EMETTEUR SONAR REMORQUE A UNE LIGNE DE REMORQUAGE D'UN SONAR ACTIF

Publication  
**EP 2076426 A1 20090708 (FR)**

Application  
**EP 07821220 A 20071011**

Priority  
• EP 2007060853 W 20071011  
• FR 0608998 A 20061013

Abstract (en)  
[origin: WO2008043823A1] The present invention relates to the handling, the attachment to a pull line and the sea launch of variable-depth apparatuses, or fish, dragged by a surface ship. The invention relates to a an automatic attachment and handling device for a fish towed by a tow line, that comprises an automatic attaching device (21) for the mechanical attachment of the fish (11) to the pull line (13) and for connecting said fish to a signal and energy conveying structure in said line. The system of the present invention also includes an automatic fish-handling device (22) on which the fish (11) is positioned when not attached to the pull line (13) and from which it is separated after attachment, which is used for automatically positioning the fish relative to the line so that the attachment and detachment can also be carried out automatically. The invention is particularly intended for towed active sonars in which the transmission antenna is integrated in a submersible apparatus, or fish, while the reception antenna consists of a linear antenna (or hydrophone array) towed behind the fish.

IPC 8 full level  
**B63B 21/60** (2006.01); **B63B 21/66** (2006.01); **B63G 8/39** (2006.01)

CPC (source: EP KR NO US)  
**B63B 21/60** (2013.01 - KR NO); **B63B 21/66** (2013.01 - EP KR NO US); **B63G 8/39** (2013.01 - EP KR US); **B63G 8/42** (2013.01 - EP KR NO US); **H01Q 1/34** (2013.01 - KR)

Citation (search report)  
See references of WO 2008043823A1

Cited by  
FR3027013A1; AU2015332794B2; WO2016059056A1

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)  
**WO 2008043823 A1 20080417**; AT E499281 T1 20110315; AU 2007306342 A1 20080417; AU 2007306342 B2 20121004; BR PI0717736 A2 20131022; DE 602007012740 D1 20110407; EP 2076426 A1 20090708; EP 2076426 B1 20110223; ES 2359948 T3 20110530; FR 2907263 A1 20080418; FR 2907263 B1 20100604; KR 101474032 B1 20141217; KR 20090080519 A 20090724; NO 20091859 L 20090630; NO 337592 B1 20160509; US 2010064955 A1 20100318; US 8104419 B2 20120131

DOCDB simple family (application)  
**EP 2007060853 W 20071011**; AT 07821220 T 20071011; AU 2007306342 A 20071011; BR PI0717736 A 20071011; DE 602007012740 T 20071011; EP 07821220 A 20071011; ES 07821220 T 20071011; FR 0608998 A 20061013; KR 20097009705 A 20071011; NO 20091859 A 20090512; US 44531507 A 20071011