

Title (en)

ARRANGEMENT AND METHOD FOR LOCATING AN OBJECT IN OR BELOW A BODY OF WATER

Title (de)

ANORDNUNG UND VERFAHREN ZUM LOKALISIEREN EINES GEGENSTANDS IN ODER UNTER EINEM GEWÄSSER

Title (fr)

ARRANGEMENT ET PROCÉDÉ POUR LOCALISER UN OBJET DANS OU SOUS UNE MASSE D'EAU

Publication

EP 3898404 A1 20211027 (DE)

Application

EP 19828635 A 20191213

Priority

- DE 102018222487 A 20181220
- EP 2019085004 W 20191213

Abstract (en)

[origin: WO2020126867A1] The present invention relates to an arrangement and a method which are able to locate an object in or below a body of water. An underwater driving vehicle (1) having a drive (6, 8, 9) and a travel direction changing unit (4.1, 4.2, 23.1, 23.2) moves the arrangement through the water. An underwater measuring body (2) is connected to the underwater driving vehicle (1) by a connecting element (3). The underwater measuring body (2) comprises a first multi-axis magnetometer (12.1) and a second multi-axis magnetometer (12.2, ...). Each magnetometer (12.1, 12.2, ...) measures a variable which correlates with the magnetic field about said magnetometer. A data storage unit (21, 22) automatically stores signals from the two magnetometers (12.1, 12.2, ...). An evaluating unit (28) is designed to automatically discover and evaluate a difference between the stored signals from the two magnetometers (12.1, 12.2, ...) in order to determine the position of the object relative to the underwater measuring body, and the distance and the position of the object relative to the surface of the floor of the body of water.

IPC 8 full level

B63G 7/06 (2006.01); **G01S 7/539** (2006.01); **G01S 15/06** (2006.01); **G01S 15/88** (2006.01); **G01V 3/08** (2006.01)

CPC (source: EP)

B63G 7/06 (2013.01); **G01V 3/08** (2013.01); **G01V 3/081** (2013.01); **B63G 2007/065** (2013.01); **G01S 15/08** (2013.01); **G01S 15/876** (2013.01); **G01S 15/88** (2013.01)

Citation (search report)

See references of WO 2020126867A1

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)

WO 2020126867 A1 20200625; DE 102018222487 A1 20200625; EP 3898404 A1 20211027

DOCDB simple family (application)

EP 2019085004 W 20191213; DE 102018222487 A 20181220; EP 19828635 A 20191213