Title (en)

FLOATING SUPPORT OR VESSEL EQUIPPED WITH A DEVICE FOR DETECTING THE MOVEMENT OF THE FREE SURFACE OF A BODY OF LIQUID

Title (de)

SCHWIMMENDER TRÄGER ODER SCHIFF, DER BZW. DAS MIT EINER VORRICHTUNG ZUR ERFASSUNG DER BEWEGUNG DER FREIEN FLÄCHE EINES FLÜSSIGKEITSKÖRPERS AUSGESTATTET IST

Title (fr)

NAVIRE OU SUPPORT FLOTTANT ÉQUIPÉ D'UN DISPOSITIF DE DÉTECTION DES MOUVEMENTS DE CARÈNES LIQUIDES

Publication

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Application

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Abstract (en)

[origin: WO2010130925A1] The present invention relates to a floating support or vessel (1) for transporting or storing liquid (3) consisting of a liquefied gas, preferably chosen from methane, ethylene, propane and butane, cooled in at least one large tank (2), preferably a cylindrical tank of polygonal cross section, thermally insulated (2a) and of a large size with at least its shortest dimension in the horizontal direction, notably its width, greater than 20 m and preferably ranging from 25 to 50 m and with a volume is excess of 10 000 m3, the said large tank 2 being supported inside the hull (4) of the vessel by a bearing structure (11), characterized in that it comprises a plurality of devices that detect the agitation of liquid within the said large tank(s), these devices hereinafter being termed as (5.5-1.5-T) "beacons" 1 comprising: - a) a vibration sensor of the vibration accelerometer type able to measure the amplitude of the acceleration (g) as a function of time (t) of the vibrational movements of a wall of the said large tank or of a wall (4a, 4b) of the said hull of the vessel to which they are fixed, and b) an electronic processor unit comprising a microprocessor and an integrated memory which are able to process the said signal as measured by the said vibration sensor (5a) in order at least to eliminate the background noise specific to the vessel, and - c) means of transmitting the said signal, preferably following processing via the said electronic processor unit, to a central processor or supervisory unit 6, preferably on the bridge of the ship.

IPC 8 full level

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