

Title (en)

SHIP LOAD OBSERVATION APPARATUS, SHIP LOAD OBSERVATION METHOD, AND SHIP LOAD OBSERVATION PROGRAM

Title (de)

SCHIFFSLADUNGSÜBERWACHUNGSVORRICHTUNG, SCHIFFSLADUNGSÜBERWACHUNGSVERFAHREN UND  
SCHIFFSLADUNGSÜBERWACHUNGSPROGRAMM

Title (fr)

APPAREIL D'OBSERVATION DE CHARGE DE NAVIRE, PROCÉDÉ D'OBSERVATION DE CHARGE DE NAVIRE ET PROGRAMME  
D'OBSERVATION DE CHARGE DE NAVIRE

Publication

**EP 3590818 B1 20230830 (EN)**

Application

**EP 18761760 A 20180222**

Priority

- JP 2017039964 A 20170303
- JP 2018006432 W 20180222

Abstract (en)

[origin: EP3590818A1] A load on a hull can be observed by a simple configuration. A hull load observation device 10 may include an acceleration measuring part 21, a posture measuring part 22, an extracting module 30, and a load calculating module 40. The acceleration measuring part 21 may measure an acceleration of the hull. The posture measuring part 22 may measure a posture of the hull. The extracting module 30 may extract a load observation acceleration caused by a phenomenon leading to the load on the hull from the acceleration, and extract a load observation posture caused by the phenomenon from the posture. The load calculating module 40 may calculate the load based on the load observation acceleration and the load observation posture.

IPC 8 full level

**B63B 43/00** (2006.01); **B63B 43/20** (2006.01); **B63B 49/00** (2006.01); **B63B 79/00** (2020.01)

CPC (source: EP)

**B63B 43/00** (2013.01); **B63B 43/20** (2013.01); **B63B 49/00** (2013.01); **B63B 79/00** (2020.01)

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

DOCDB simple family (publication)

**EP 3590818 A1 20200108**; **EP 3590818 A4 20210120**; **EP 3590818 B1 20230830**; CN 110366522 A 20191022; CN 110366522 B 20220211; JP 6880171 B2 20210602; JP WO2018159440 A1 20191226; WO 2018159440 A1 20180907

DOCDB simple family (application)

**EP 18761760 A 20180222**; CN 201880014702 A 20180222; JP 2018006432 W 20180222; JP 2019502928 A 20180222