

Title (en)

SHIP STEERING SYSTEM AND SHIP STEERING METHOD

Title (de)

SCHIFFSSTEUERUNGSSYSTEM UND SCHIFFSSTEUERUNGSVERFAHREN

Title (fr)

DISPOSITIF DE PILOTAGE DE NAVIRE ET PROCÉDÉ DE PILOTAGE DE NAVIRE

Publication

**EP 4257471 A1 20231011 (EN)**

Application

**EP 21900507 A 20211126**

Priority

- JP 2020201930 A 20201204
- JP 2021043400 W 20211126

Abstract (en)

A ship maneuvering system includes: a front-rear propulsor that outputs thrust toward both sides in a front-rear direction of a hull; a lateral propulsor that outputs thrust toward both sides in a lateral direction of the hull; at least one mooring structure located close to a stern of the hull and at least one mooring structure located close to a bow of the hull, each of the mooring structures being configured to wind and unwind a mooring rope; and ship maneuvering circuitry configured to control operations of the front-rear propulsor, the lateral propulsor, and the mooring structures. When making the hull reach a quay, with the mooring ropes locked to mooring posts located at the quay, the ship maneuvering circuitry makes the mooring structures wind the mooring ropes, and at the same time, makes at least one of the front-rear propulsor and the lateral propulsor output the thrust by which tension of each mooring rope is reduced.

IPC 8 full level

**B63B 21/00** (2006.01); **B63B 21/16** (2006.01); **B63H 25/02** (2006.01); **B63H 25/04** (2006.01); **B63H 25/42** (2006.01)

CPC (source: EP KR)

**B63B 21/16** (2013.01 - EP KR); **B63H 21/21** (2013.01 - KR); **B63H 25/04** (2013.01 - KR); **B63H 25/42** (2013.01 - EP KR); **B63B 2021/008** (2013.01 - KR); **B63H 2025/026** (2013.01 - KR)

Citation (search report)

See references of WO 2022118753A1

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

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

**EP 4257471 A1 20231011**; CN 116075462 A 20230505; JP WO2022118753 A1 20220609; KR 20230110622 A 20230724; WO 2022118753 A1 20220609

DOCDB simple family (application)

**EP 21900507 A 20211126**; CN 202180061985 A 20211126; JP 2021043400 W 20211126; JP 2022566887 A 20211126; KR 20237021877 A 20211126