

Title (en)
MARINE PROPULSION SYSTEM

Title (de)
SCHIFFSANTRIEBSSYSTEM

Title (fr)
SYSTÈME DE PROPULSION MARINE

Publication
EP 4177153 A1 20230510 (EN)

Application
EP 22203444 A 20221025

Priority
JP 2021180208 A 20211104

Abstract (en)
A marine propulsion system (102) includes a main propulsion device (1) configured to rotate in a right-left direction to change a direction of a thrust, an auxiliary propulsion device (2) including an electric motor configured to drive an auxiliary thruster (20) and configured to rotate in the right-left direction to change a direction of a thrust, and a controller (6) configured or programmed to perform a drift control to move a hull (101) under external forces including wind and water flow while maintaining an orientation (T1) of a bow (101a) of the hull at a target orientation by rotating the hull. The controller is configured or programmed to maintain the orientation of the bow at the target orientation by rotating the hull by driving the auxiliary thruster while stopping a main thruster (10) of the main propulsion device in the drift control.

IPC 8 full level
B63H 20/00 (2006.01); **B63H 25/42** (2006.01)

CPC (source: EP US)
B63H 20/007 (2013.01 - EP); **B63H 25/04** (2013.01 - US); **B63H 25/42** (2013.01 - EP US); **B63H 2020/003** (2013.01 - EP US); **B63H 2021/205** (2013.01 - EP US); **B63H 2021/216** (2013.01 - EP); **B63H 2025/045** (2013.01 - US)

Citation (applicant)
JP 2000168692 A 20000620 - NISSAN MOTOR

Citation (search report)
• [Y] US 2019179318 A1 20190613 - MILLER ALBERT F [US], et al
• [IY] US 5931110 A 19990803 - YAMAMOTO SHIGERU [JP]
• [YA] US 2021139123 A1 20210513 - OSARA TATSURO [JP], et al
• [A] US 2009107382 A1 20090430 - HUNTT ROBERT [US]

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 ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
EP 4177153 A1 20230510; **EP 4177153 B1 20240626**; JP 2023068838 A 20230518; US 2023133897 A1 20230504

DOCDB simple family (application)
EP 22203444 A 20221025; JP 2021180208 A 20211104; US 202217974571 A 20221027