

Title (en)
TURNING CONTROL DEVICE FOR SHIP PROPULSION DEVICE

Title (de)
DREHSTEUERUNGSVORRICHTUNG FÜR EINE SCHIFFSANTRIEBSVORRICHTUNG

Title (fr)
DISPOSITIF DE COMMANDE DE ROTATION POUR DISPOSITIF DE PROPULSION DE BATEAU

Publication
EP 2905219 B1 20170927 (EN)

Application
EP 13844375 A 20130410

Priority
• JP 2012223023 A 20121005
• JP 2013060790 W 20130410

Abstract (en)
[origin: EP2905219A1] To allow plural AC servo motors of an electric turning control unit to share load equally. A turning control unit 2 for controlling a freely turnable marine propulsion machine includes: a turning control board 7 which calculates a digital motor-speed reading from a deviation between a signal from a sensor 6 for detecting a turning position of the marine propulsion machine and a handle signal; and a plurality of AC servo amplifiers A1, A2 which drive AC servo motors M1, M2 by receiving the motor-speed reading from the turning control board and outputting a motor speed command value. Each amplifier is adapted to reduce the motor speed command value according to a load amount when the motor performs power running, to increase the motor speed command value according to the load amount when the motor performs regenerative running, and to make no correction when the load amount of the motor is equal to or less than a fixed value. The respective loads on the plural AC servo motors can be dispersed to a uniform value.

IPC 8 full level
B63H 25/24 (2006.01); **B63H 5/125** (2006.01); **B63H 20/00** (2006.01); **B63H 25/42** (2006.01)

CPC (source: EP)
B63H 5/125 (2013.01); **B63H 20/00** (2013.01); **B63H 25/24** (2013.01); **B63H 25/42** (2013.01); **B63H 2025/026** (2013.01)

Cited by
DE102017213420A1; CN110997481A; WO2019025518A1

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 2905219 A1 20150812; **EP 2905219 A4 20160713**; **EP 2905219 B1 20170927**; ES 2642405 T3 20171116; JP 2014073783 A 20140424; JP 6395996 B2 20180926; NO 2905219 T3 20180224; WO 2014054304 A1 20140410

DOCDB simple family (application)
EP 13844375 A 20130410; ES 13844375 T 20130410; JP 2012223023 A 20121005; JP 2013060790 W 20130410; NO 13844375 A 20130410