

Title (en)  
A control system for a ship

Title (de)  
Steuersystem für ein Schiff

Title (fr)  
Système de commande pour un navire

Publication  
**EP 3006327 A1 20160413 (EN)**

Application  
**EP 14187758 A 20141006**

Priority  
EP 14187758 A 20141006

Abstract (en)  
The control system comprises at least one propulsion unit, a lever (200) by which an operator controls the speed and the direction of the at least one propulsion unit (100), a control circuit (300) controlling the speed and the direction of the at least one propulsion unit (100) based on the control signals received from the lever (200), and a force feedback (220) acting on the lever (200). The system comprises further an algorithm (310) receiving as input signals measured process values (M1) relating to operational parameters of the ship and the at least one propulsion unit (100). The control circuit (300) controls the force feedback (220) by comparing the requested operation received from the lever (200) with safe and/or optimal limits received from the algorithm (310) in order to transfer haptic information through the lever (200) to the operator indicating that the requested operation is beyond safe and/or optimal operational limits of the at least one propulsion unit (100).

IPC 8 full level  
**B63H 21/21** (2006.01); **B63H 25/02** (2006.01); **B63H 25/42** (2006.01)

CPC (source: EP)  
**B63H 21/213** (2013.01); **B63H 25/42** (2013.01); **B63H 2025/026** (2013.01)

Citation (applicant)  
• EP 0352257 A1 19900131 - CATERPILLAR INC [US]  
• US 7112107 B1 20060926 - TORGERUD MICHAEL A [US]  
• US 5062594 A 19911105 - REPPERGER DANIEL W [US]

Citation (search report)  
• [A] US 2008119974 A1 20080522 - MIZUTANI MAKOTO [JP]  
• [A] WO 2011049470 A1 20110428 - CWF HAMILTON & CO LTD [NZ], et al  
• [A] EP 1510453 A1 20050302 - TELEFLEX CANADA INC [CA]

Cited by  
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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

DOCDB simple family (publication)  
**EP 3006327 A1 20160413; EP 3006327 B1 20180516**

DOCDB simple family (application)  
**EP 14187758 A 20141006**