

Title (en)
TUGBOAT HAVING AZIMUTHAL PROPELLING UNITS

Title (de)
SCHLEPPSCHIFF MIT AZIMUTALEN ANTRIEBSEINHEITEN

Title (fr)
REMORQUEUR ÉQUIPÉ D'UNITÉS DE PROPULSION AZIMUTALES

Publication
EP 3523194 A1 20190814 (EN)

Application
EP 17790866 A 20171005

Priority
• NL 2017577 A 20161005
• NL 2017050656 W 20171005

Abstract (en)
[origin: WO2018067008A1] A tugboat (1) having azimuthal propelling units, comprising two juxtaposed azimuthal propelling units (10, 20), characterized in that each of the juxtaposed propelling units (10, 20) has a main shaft (14) with a main axis (11, 21) extending at an angle (α and/or β) relative to a main plane of symmetry (2) and/or to a transverse center plane (5) of the tug boat.

IPC 8 full level
B63H 5/125 (2006.01); **B63B 35/66** (2006.01); **B63H 5/15** (2006.01); **B63H 25/42** (2006.01)

CPC (source: EP US)
B63B 35/66 (2013.01 - EP); **B63H 5/125** (2013.01 - EP US); **B63H 5/15** (2013.01 - EP); **B63H 25/42** (2013.01 - EP); **B63B 35/66** (2013.01 - US); **B63H 5/15** (2013.01 - US); **B63H 25/42** (2013.01 - US); **B63H 2005/1254** (2013.01 - EP US)

Citation (search report)
See references of WO 2018067008A1

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)
WO 2018067008 A1 20180412; AU 2017338597 A1 20190523; CA 3039503 A1 20180412; CL 2019000918 A1 20190726; CO 2019004474 A2 20190731; EP 3523194 A1 20190814; EP 3523194 B1 20210707; ES 2881825 T3 20211130; MX 2019004028 A 20200130; NL 2017577 B1 20180413; SG 11201903051P A 20190530; US 2019283850 A1 20190919

DOCDB simple family (application)
NL 2017050656 W 20171005; AU 2017338597 A 20171005; CA 3039503 A 20171005; CL 2019000918 A 20190404; CO 2019004474 A 20190430; EP 17790866 A 20171005; ES 17790866 T 20171005; MX 2019004028 A 20171005; NL 2017577 A 20161005; SG 11201903051P A 20171005; US 201716339697 A 20171005