

Title (en)
MARINE TOWING SYSTEM

Title (de)
SCHIFFSSCHLEPPSYSTEM

Title (fr)
SYSTÈME DE REMORQUAGE MARITIME

Publication
EP 4031444 B1 20231108 (EN)

Application
EP 20781622 A 20200918

Priority

- GB 201913475 A 20190918
- GB 201915622 A 20191028
- GB 201916400 A 20191111
- GB 202010593 A 20200709
- IB 2020058730 W 20200918

Abstract (en)
[origin: WO2021053613A1] A towline deployment system comprises a gas rocket propulsion system (100), a rocket assembly (40,40'), a structural anchorage point (39,139) on the marine vessel and a length of towline (32,33). The rocket assembly has a rocket main body (41) and a heaving line cartridge (71) containing a length of heaving line (31) that pays out through a receptacle opening (73) when the rocket main body is launched by the compressed gas. The structural anchorage point (39,139) has an aperture (39', 139') for engaging with a towline stop (37). The towline is connected to the tail (3T) of the heaving line (31) through the aperture of the structural anchorage point whereby the heaving line when deployed is configured to pull the towline (32,33) through the aperture (39', 139') in the structural anchorage point (39,139) until the towline stop (37) is engaged with the aperture.

IPC 8 full level
B63B 21/66 (2006.01); **B63B 35/00** (2020.01); **B63C 7/00** (2006.01); **F41F 1/00** (2006.01); **F42B 12/68** (2006.01)

CPC (source: EP)
B63B 21/66 (2013.01); **F41B 11/62** (2013.01); **F41B 11/80** (2013.01); **F41F 7/00** (2013.01); **F42B 12/68** (2013.01); **B63B 2035/008** (2013.01); **B63C 7/00** (2013.01)

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)
WO 2021053613 A1 20210325; EP 4031444 A1 20220727; EP 4031444 B1 20231108; EP 4031444 C0 20231108

DOCDB simple family (application)
IB 2020058730 W 20200918; EP 20781622 A 20200918