

Title (en)
CARGO TANK UNIT AND SHIP

Title (de)
FRACHTTANKEINHEIT UND SCHIFF

Title (fr)
UNITÉ DE CITERNE À CARGAISON ET NAVIRE

Publication
EP 4056460 A4 20230125 (EN)

Application
EP 20906698 A 20201222

Priority
• JP 2019238408 A 20191227
• JP 2020048029 W 20201222

Abstract (en)
[origin: EP4056460A1] A cargo tank unit comprising a cargo tank, a skirt, and a welded section. The cargo tank is of IMO IGC Code T ank Type C. The skirt has the upper end thereof connected to the lower half of the cargo tank, across the perimeter direction. As the skirt extends downwards, the skirt ext ends towards the outside, in the radial direction, of the cargo tank and is fixed to the hull. The welded section f ixes the upper end of the skirt to the cargo tank, across the perimeter direction.

IPC 8 full level
B63B 25/16 (2006.01); **F17C 13/08** (2006.01)

CPC (source: EP KR)
B63B 25/16 (2013.01 - EP KR); **B63B 73/43** (2020.01 - KR); **F17C 13/082** (2013.01 - EP KR); **B63B 2025/087** (2013.01 - EP KR); **F17C 2201/0128** (2013.01 - EP); **F17C 2201/052** (2013.01 - EP); **F17C 2203/012** (2013.01 - EP); **F17C 2203/0304** (2013.01 - EP); **F17C 2203/0646** (2013.01 - EP); **F17C 2205/018** (2013.01 - EP KR); **F17C 2205/0192** (2013.01 - EP); **F17C 2209/221** (2013.01 - EP KR); **F17C 2221/032** (2013.01 - KR); **F17C 2221/033** (2013.01 - EP); **F17C 2223/0161** (2013.01 - EP); **F17C 2223/033** (2013.01 - EP); **F17C 2270/0105** (2013.01 - EP)

Citation (search report)
• [IAY] WO 2007142400 A1 20071213 - HYUN DAI HEAVY IND CO LTD [KR], et al
• [IAY] JP S57200797 A 19821209 - SENERU INJINIERIA I SHISUTEMAS
• [IAY] JP 2003040188 A 20030213 - HITACHI SHIPBUILDING ENG CO
• [IAY] US 2010275834 A1 20101104 - TAKAOKA YUKICHI [JP], et al
• [A] KR 20160096311 A 20160816 - STX OFFSHORE & SHIPBUILDING CO [KR]
• [A] DEEB HASAN: "STRUCTURAL DESIGN OF MEGA LNG CARRIER", WEST POMERANIAN UNIVERSITY OF TECHNOLOGY, 1 February 2013 (2013-02-01), pages 23 - 120, XP055838084, Retrieved from the Internet <URL:http://www.emship.eu/Documents/MasterThesis/2013/Hasan%20Deeb.pdf>
• See also references of WO 2021132277A1

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

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
EP 4056460 A1 20220914; EP 4056460 A4 20230125; EP 4056460 B1 20240214; AU 2020413201 A1 20220630; AU 2020413201 B2 20240502; CN 114829245 A 20220729; CN 114829245 B 20240209; DK 4056460 T3 20240226; JP 2021107171 A 20210729; KR 20220098236 A 20220711; WO 2021132277 A1 20210701

DOCDB simple family (application)
EP 20906698 A 20201222; AU 2020413201 A 20201222; CN 202080087315 A 20201222; DK 20906698 T 20201222; JP 2019238408 A 20191227; JP 2020048029 W 20201222; KR 20227020183 A 20201222