



(51) International Patent Classification:

F17C 3/02 (2006.01) *B63B 35/28* (2006.01)
F17C 3/04 (2006.01) *B63B 25/16* (2006.01)
B65D 90/06 (2006.01)

(21) International Application Number:

PCT/IB2015/051472

(22) International Filing Date:

27 February 2015 (27.02.2015)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

1403543.0 28 February 2014 (28.02.2014) GB

(71) Applicant: **MGI THERMO PTE LTD** [NO/NO]; P.O.
Box 792, N-3002 Drammen (NO).

(72) Inventor: **NIKOLAISEN, Per Ivar**; c/o MGI Thermo Pte,
P.O. Box 792, N-3002 Drammen (NO).

(74) Agent: **ALBUTT, Anthony**; D Young & Co LLP, 120
Holborn, London EC1N 2DY (GB).

(81) Designated States (*unless otherwise indicated, for every
kind of national protection available*): AE, AG, AL, AM,

AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY,
BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM,
DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT,
HN, HR, HU, ID, IL, IN, IR, IS, JP, KE, KG, KN, KP, KR,
KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG,
MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM,
PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC,
SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN,
TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States (*unless otherwise indicated, for every
kind of regional protection available*): ARIPO (BW, GH,
GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ,
TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU,
TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE,
DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU,
LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK,
SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, KM, ML, MR, NE, SN, TD, TG).

Published:

— with international search report (Art. 21(3))

(88) Date of publication of the international search report:

7 January 2016

(54) Title: MARINE VESSEL CRYOGENIC BARRIER AND INSULATION APPARATUS AND METHOD

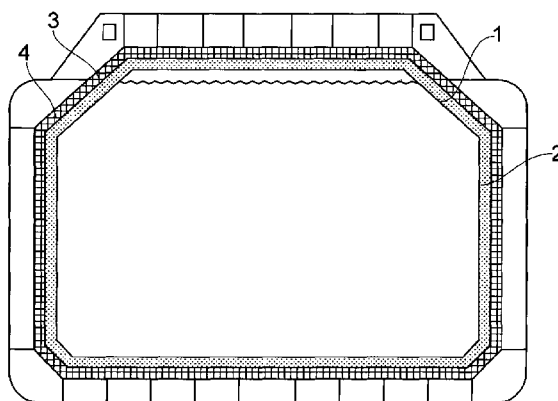


FIG. 2A

(57) Abstract: The invention relates to a marine vessel cryogenic barrier which is formed of a plurality of individual panels, each panel being arranged to align with an adjacent panel on an inner surface of a hold space of a marine vessel and comprising a single coupling means at the centre of the panel and an impervious layer on a surface of the barrier facing the hold space.

