

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
25 May 2023 (25.05.2023)



(10) International Publication Number
WO 2023/091027 A1

(51) International Patent Classification:

F17C 13/00 (2006.01) F17C 7/02 (2006.01)
F17C 5/02 (2006.01)

(21) International Application Number:

PCT/NO2022/050267

(22) International Filing Date:

18 November 2022 (18.11.2022)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

20211391 19 November 2021 (19.11.2021) NO

(71) Applicants: **ECONNECT ENERGY AS** [NO/NO]; Slem-
dalsveien 70B, N-0370 Oslo (NO). **AMON MARITIME**
AS [NO/NO]; Rådhusgata 15, N-3211 Sandefjord (NO).

(72) Inventors: **JONAS, Jørn Magnus**; Nedre Fjærholmvei
21, N-3132 Husøysund (NO). **MAGNUSSON, Stian**; c/
o Econnect Energy AS, Slemdalsveien 70B, N-0370 Oslo
(NO).

(74) Agent: **AWA NORWAY AS**; Hoffsvæien 1A, N-0275 Oslo
(NO).

(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, CV, CZ, DE, DJ, DK, DM,
DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT,
HN, HR, HU, ID, IL, IN, IQ, IR, IS, IT, JM, JO, JP, KE,
KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU,
LY, MA, MD, 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, ST, SV, SY, TH,
TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS,
ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, CV,
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, ME, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI,

(54) Title: SYSTEM AND METHOD FOR COOLING OF A LIQUEFIED GAS PRODUCT

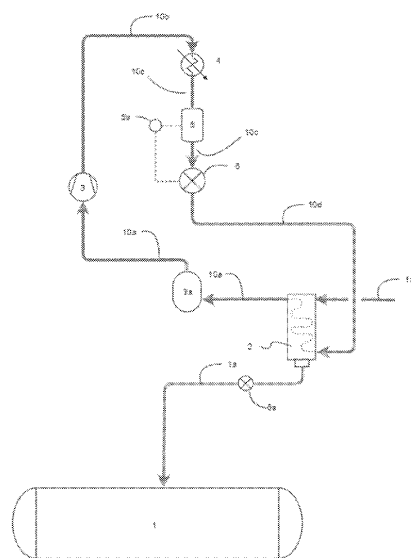


Fig. 1A

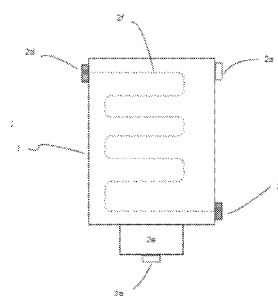


Fig. 1B

(57) Abstract: The present invention concerns a method and a system for cooling of a gas product. The system comprises a feed line (1a) for feeding gas product to the system and a storage (1) for liquefied gas product. The storage (1) is connected to the feed line (1a). The system also comprises a cooling circuit for indirect cooling of gas product flowing through the feed line (1a) to the storage (1), wherein the cooling circuit includes the gas product as a coolant and wherein the gas product may be a petroleum gas or ammonia.

[Continued on next page]

SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, KM, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

- *as to applicant's entitlement to apply for and be granted a
patent (Rule 4.17(ii))*
- *of inventorship (Rule 4.17(iv))*

Published:

- *with international search report (Art. 21(3))*