

(43) International Publication Date
19 May 2011 (19.05.2011)(10) International Publication Number
WO 2011/059344 A1(51) International Patent Classification:
F17C 7/04 (2006.01)(21) International Application Number:
PCT/NO2010/000414(22) International Filing Date:
12 November 2010 (12.11.2010)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
20093341 13 November 2009 (13.11.2009) NO(71) Applicant (for all designated States except US): **HAM-
WORTHY GAS SYSTEMS AS** [NO/NO]; P.O. Box
144, N-1371 ASKER (NO).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **MADSEN, Per,
Helge, S.** [NO/NO]; Krabberødkollen 29, N-3960
Stathelle (NO).(74) Agent: **ZACCO NORWAY AS**; P.O. Box 2003 Vika,
N-0125 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, 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, IS, JP, KE, KG, KM, KN, KP,
KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD,
ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI,
NO, NZ, OM, PE, PG, PH, PL, PT, RO, RS, RU, 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, SD, SL, SZ, TZ, UG,
ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, 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, ML, MR, NE, SN, TD, TG).

Published:

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

(54) Title: A PLANT FOR REGASIFICATION OF LNG

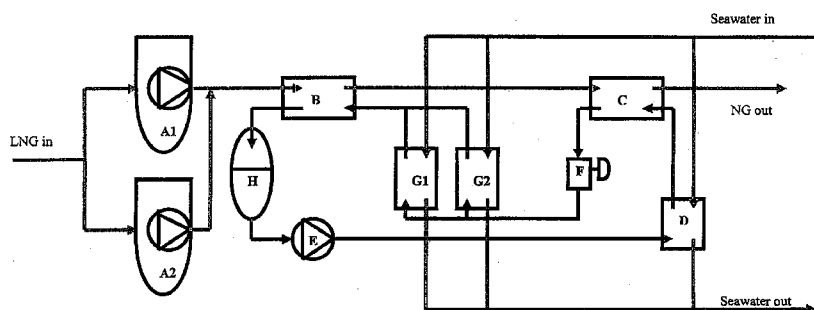


Figure 1

(57) **Abstract:** A plant for regasification of LNG comprises at least one pump (A1, A2) boosting LNG pressure; a LNG/coolant heat exchanger (B) producing NG from LNG being flowed from the boosting pumps; a closed coolant loop extending through the LNG/coolant heat exchanger (B) and including at least one heat exchangers (D, G1, G2), a coolant from the respective heat exchanger being passed through the LNG heat exchanger as a gas and leaving in a condensed state as to produce NG by thermal exchange; and a heating medium being used within the respective heat exchanger (D, G1, G2) as to provide coolant in a gaseous state. Moreover, a NG/coolant heat exchanger (C) is arranged in connection with the LNG/coolant heat exchanger (B) and is connected to the closed coolant loop, whereby LNG is preheated within the LNG/coolant heat exchanger and NG is then heated within the NG/coolant heat exchanger using liquid coolant from at least one heat exchanger (D).