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 2017-223270 21 November 2017 (21.11.2017) JP</p> <p>(71) Applicant: L'AIR LIQUIDE, SOCIETE ANONYME POUR L'ETUDE ET L'EXPLOITATION DES PROCEDES GEORGES CLAUDE [FR/FR]; 75, Quai d'Orsay, 75007 PARIS (FR).</p> | <p>(72) Inventors: TOMITA, Shinji; c/o Air Liquide Global E&C Solutions Japan Ltd., 7-1-15, Goko-dori, Chuo-ku, Hyogo Prefecture, KOBE, Hyogo 651-0087 (JP). HIROSE, Kenji; c/o Air Liquide Global E&C Solutions Japan Ltd., 7-1-15, Goko-dori, Chuo-ku, Hyogo Prefecture, KOBE, Hyogo 651-0087 (JP). NAGATA, Daisuke; c/o Air Liquide Global E&C Solutions Japan Ltd., 7-1-15, Goko-dori, Chuo-ku, Hyogo Prefecture, KOBE, Hyogo 651-0087 (JP).</p> <p>(74) Agent: DE BEAUFORT, François-Xavier; 75 Quai d'Orsay, 75321 PARIS Cedex 07 (FR).</p> <p>(81) Designated States (<i>unless otherwise indicated, for every kind of national protection available</i>): 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, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, JO, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG,</p> |
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(54) Title: BOG RECONDENSER AND LNG STORAGE SYSTEM PROVIDED WITH SAME

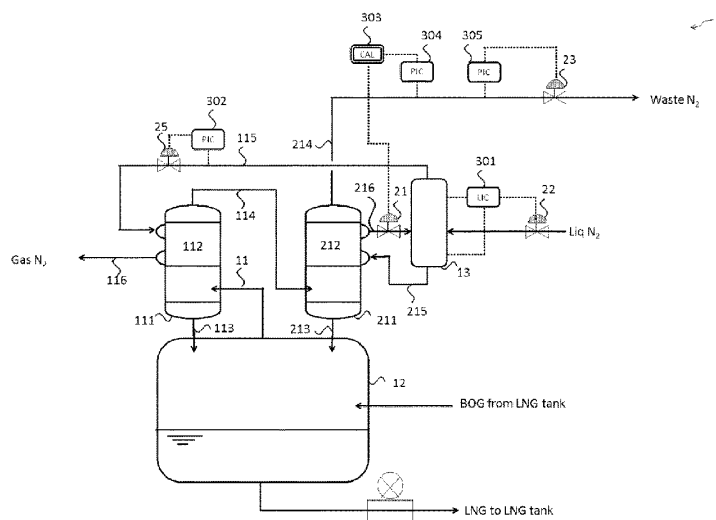


FIG. 1

(57) Abstract: PROBLEM TO BE SOLVED: To provide a BOG recombinator for recombinating BOG of LNG with high heat exchange efficiency while removing nitrogen in BOG of NG and without using a compressor. SOLUTION: A BOG recombinator 1 has an LNG buffer tank (12), a first condenser (111), and a second condenser (211). The first (condenser 111) has a first heat exchanger (112). The second condenser (211) has a second heat exchanger (212). BOG generated in the LNG buffer tank (12) is recombinated by heat exchange with a coolant in the first heat exchanger (112). The BOG not yet recombinated is introduced to the second condenser (211). Some of the BOG introduced to the second condenser (211) is recombinated by the second heat exchanger (212) and returned to the LNG buffer tank (12). In the second heat exchanger (212), at least some of the coolant exchanging heat with the BOG in the second condenser (211) is made to also exchange heat in the first heat exchanger (112) with the BOG in the first condenser (111).

[Continued on next page]

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