



- (51) **International Patent Classification:**
G06F 1/20 (2006.01) *H05K 7/20* (2006.01)
- (21) **International Application Number:**
PCT/US2013/027956
- (22) **International Filing Date:**
27 February 2013 (27.02.2013)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**
61/603,992 28 February 2012 (28.02.2012) US
61/657,079 8 June 2012 (08.06.2012) US
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- (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, 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, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, 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, 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,

[Continued on next page]

(54) **Title:** SYSTEM AND METHODS FOR DATA CENTER COOLING AND POWER GENERATION USING LIQUEFIED NATURAL GAS

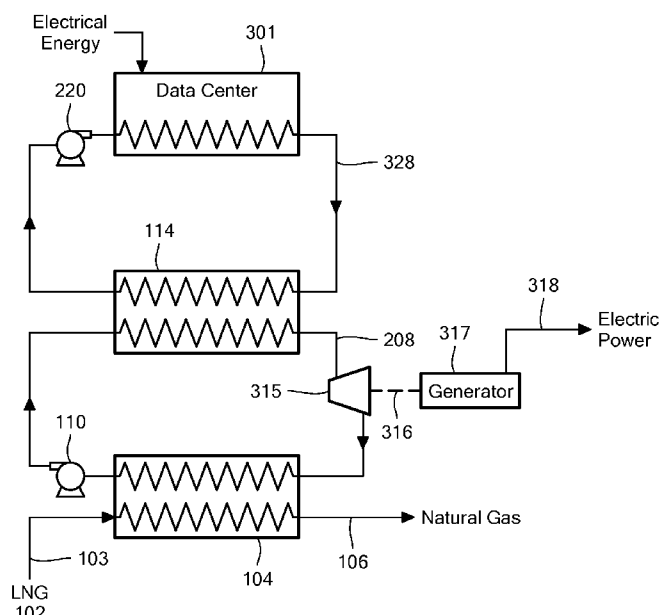


FIG. 3

(57) **Abstract:** A system and method for cooling a data center by transferring heat directly, or indirectly, to liquid natural gas (LNG). One or more intermediary heat exchange loops contain heat-transfer fluids for conveying heat from electrical equipment within the data center to a collocated LNG vaporization terminal facility. Additionally, the temperature gradient between LNG and a refrigerant heated by heat waste of the data center may be used to drive a heat engine to produce emissions-free electricity or mechanical work.



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

*before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments (Rule 48.2(h))*

Published:

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