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(71) Applicant (for all designated States except US): **EXCEL-
ERATE ENERGY LIMITED PARTNERSHIP**
[US/US]; 1450 Lake Robbins Drive, Suite 200, The
Woodlands, Texas 77380 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **COOK, Jonathan**
[US/US]; 4810 Pine Heather Court, Houston, Texas
77059 (US). **LANE, Mark K.** [US/US]; 946 Shaw Drive,
Key Largo, Florida 33037 (US).

(74) Agent: **MEYERTONS, HOOD, KIVLIN, KOWERT &
GOETZEL, P.C.**; MEYERTONS, Eric B., P.O. Box
398, Austin, Texas 78767-0398 (US).

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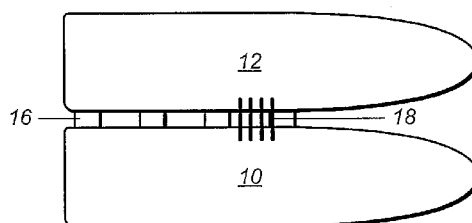


FIG. 2B

(57) Abstract: Systems and methods for gas-up and cool down of LNG cargo tanks are described herein. A system includes a supply vessel located at a waterway location, a receiving vessel moored to the supply vessel, and a manifold conduit. The supply vessel is configured to transfer natural gas to the receiving vessel using the manifold conduit for gas-up and cool down of one or more LNG cargo tanks onboard the receiving vessel.