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(71) Applicant: **KEPPEL OFFSHORE & MARINE TECHNOLOGY CENTRE PTE LTD** [SG/SG]; 50 Gul Road, Singapore 629351 (SG).

(72) Inventors: **MERCHANT, Aziz Amirali**; 50 Gul Road, Singapore 629351 (SG). **HUSSAIN, Anis Altaf**; 50 Gul Road, Singapore 629351 (SG). **KUMAR, Sreekala**; 50 Gul Road, Singapore 629351 (SG). **MD MASUM REZA, Abul Bashar**; 50 Gul Road, Singapore 629351 (SG). **ADAIKALARAJ, Peter Francis Bernad**; 50 Gul Road,

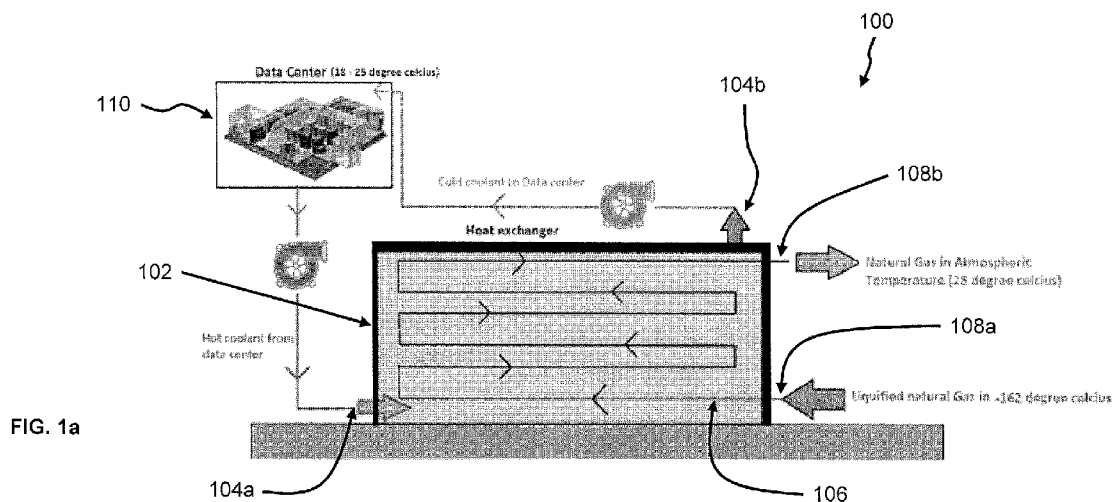
Singapore 629351 (SG). **TEE, Jackson**; 50 Gul Road, Singapore 629351 (SG).

(74) Agent: **ALLEN & GLEDHILL LLP**; One Marina Boulevard #28-00, Singapore 018989 (SG).

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(54) Title: COLD ENERGY RECOVERY APPARATUS FOR A SELF-POWERED DATA CENTRE



(57) Abstract: A cold energy recovery apparatus (100) for a self-powered data centre is disclosed. The apparatus comprises a fluid storage tank (102) having at least a pair of inlet and outlet (104a, 104b), the inlet configured to receive a coolant; and a heat exchanger (106) arranged in the tank, the heat exchanger having a pair of inlet and outlet (108a, 108b), the inlet configured to receive liquefied natural gas. The apparatus is operable to permit the coolant to flow from the inlet to the outlet of the tank causing the coolant to be in fluid contact with the heat exchanger, in which the coolant is progressively cooled to a lower temperature by heat transfer to the liquefied natural gas via fluid contact with the heat exchanger. The liquefied natural gas is vaporized into natural gas due to the heat transfer and is directed out from the outlet of the heat exchanger.



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According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

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C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DE 36 26 359 A1 (LINDE AG [DE]) 11 February 1988 (1988-02-11)	1-13
A	column 3, line 55 - column 4, line 21; figure 1	14-16
X	----- US 2009/211263 A1 (COYLE DAVID A [US]) 27 August 2009 (2009-08-27) paragraphs [0095] - [0097]; figures 11,12	1-13
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X	----- CN 205 669 675 U (TANG HU) 2 November 2016 (2016-11-02) paragraphs [0029], [0030]; figure 4	1,12
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Further documents are listed in the continuation of Box C.



See patent family annex.

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Name and mailing address of the ISA/

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040,
Fax: (+31-70) 340-3016

Authorized officer

Röberg, Andreas

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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INTERNATIONAL SEARCH REPORT

Information on patent family members

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