Abstract: The invention refers to a plant and a procedure for obtaining liquefied fuel gas that can be used to obtain thermal energy or electricity. The problem solved by the invention consists in ensuring gas supply when a source of natural gas doesn’t exist. According to the invention, the installation contains several reactors (A), each supplied with salt water from a tank (1) and provided with a horizontal chamber (a) which is connected to one pipeline with an electric valve mounted on the inside, through which water discharged from the chambers is circulated and directed through a cooler, from which, through a pipeline, it is sucked by a pump and pushed through a pipeline having an electric valve in the chamber. At the bottom, each reactor is connected to a short pipeline held in connection with a filter and further through a pipe with an electric valve mounted on the inside, connected to a collector pipeline from which water is forced by a pump into the tank. The gas produced in the chambers is sucked from the chambers through a pipeline after crossing some separation filters, by a compressor that pushes gas into a reservoir from which a part is pushed through a power generator, and another part is circulated through a pipeline with an electric valve mounted inside, up to a gas liquefaction station. The plant uses salt water from the sea which is introduced simultaneously into several chambers (a) of reactors (A).
Published: 24 February 2011

Date of publication of the international search report:

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

— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2Qi))
### INTERNATIONAL SEARCH REPORT

**A. CLASSIFICATION OF SUBJECT MATTER**

**INV.** C25B9/18  C25B15/08

**ADD.**

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

**B. RELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

- C25B  C02F

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

Electronic database consulted during the international search (name of database and, where practical, search terms used)

- EPO-Internal

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

<table>
<thead>
<tr>
<th>Category</th>
<th>Citation of document, with indication where appropriate, of the relevant passages</th>
<th>Relevant to claim No</th>
</tr>
</thead>
</table>
| Y        | GB 2 077 294 A (PANCLOR SPA)  
16 December 1981 (1981-12-16)  
figures 5-7; examples 10,11 | 1.2 |
| Y        | US 2005/139808 A1 (ALIMI HOJI [US])  
30 June 2005 (2005-06-30)  
paragraph [0104] – paragraph [0109];  
figure 3 | 1.2 |
| Y        | US 4 085 709 A (TANGRI KULDIP CHAND)  
claim 1; figure 1 | 1.2 |

- Further documents are listed in the continuation of Box C
- See patent family annex

* Special categories of cited documents
  - 'A' document defining the general state of the art which is not considered to be of particular relevance
  - 'E' earlier document but published on or after the international filing date
  - 'L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
  - 'O' document referring to an oral disclosure, use, exhibition or other means
  - 'P' document published prior to the international filing date but later than the priority date claimed

**Date of the actual completion of the international search**  
9 December 2010

**Date of mailing of the international search report**  
17/12/2010

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### INTERNATIONAL SEARCH REPORT

**Information on patent family members**

**International application No**

**PCT/R02009/000020**

<table>
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<th>Publication date</th>
<th>Patent family member(s)</th>
<th>Publication date</th>
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<tbody>
<tr>
<td>GB 2077294 A</td>
<td>16-12-1981</td>
<td>NONE</td>
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<td>US 4085709 A</td>
<td>25-04-1978</td>
<td>NONE</td>
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*Form PCT/ISA/21 (patent family annex) (April 2005)*