Title: SELF-CONTAINED, MOBILE METHANOL SYNTHESIS PLANT

Abstract: The present invention relates to a portable, self-contained system and process for producing methanol from carbon dioxide and hydrogen gases. The system is designed to be portable, so that it may be readily transported to and operated at various sites wherein carbon dioxide and/or hydrogen gases are produced and/or collected, and those gases reacted to form methanol. In a preferred embodiment, the system of the invention is transported to a site where it is permanently or temporarily installed and placed into operation.
INTERNATIONAL SEARCH REPORT

A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - C07C 27/06; C01B 3/34 (201.1.01)
USPC - 252/373; 204/242; 422/600; 423/41 8.2; 48/61

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

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC(8) - C07C 27/06; C01B 3/34 (201.1.01);
USPC- 252/373; 204/242; 422/600; 423/418.2; 48/61

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

IPC(8) - C07C 27/06; C01B 3/34 (201.1.01);
USPC- 252/373; 204/242; 422/600; 423/418.2; 48/61; 422/200; Patents and NPL (classification, keyword; search terms below)

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

PubWest (US Pat, PgPub, EPO, JPO), GoogleScholar (PL, NPL), FreePatentsOnline (US Pat, PgPub, EPO, JPO, WIPO, NPL);

search terms: mobile, transport, portable, methanol, synthesis, generate, produce, hydrogen, carbon dioxide, CO2, heat, temperature, ship, wheel, truck, trailer, brewery

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>
<tbody>
<tr>
<td>Y</td>
<td>US 2003/0037487 A1 (AMENDOLA et al.) 27 February 2003 (27.02.2003), Figs. 1, 5, 9A; para [0004]-[0006], [0031], [0058], [0068]</td>
<td>1-1-1</td>
</tr>
<tr>
<td>Y</td>
<td>EP 0 933 251 A2 (TORWESTEN et al.) 04 August 1999 (04.08.1999), Figs. 1, 2; English Abstract</td>
<td>8</td>
</tr>
</tbody>
</table>

* 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 application or patent 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

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered as involving an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"A" document member of the same patent family

Date of the actual completion of the international search

02 November 2001 (02.1.2001)

Date of mailing of the international search report

22 NOV 2011

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