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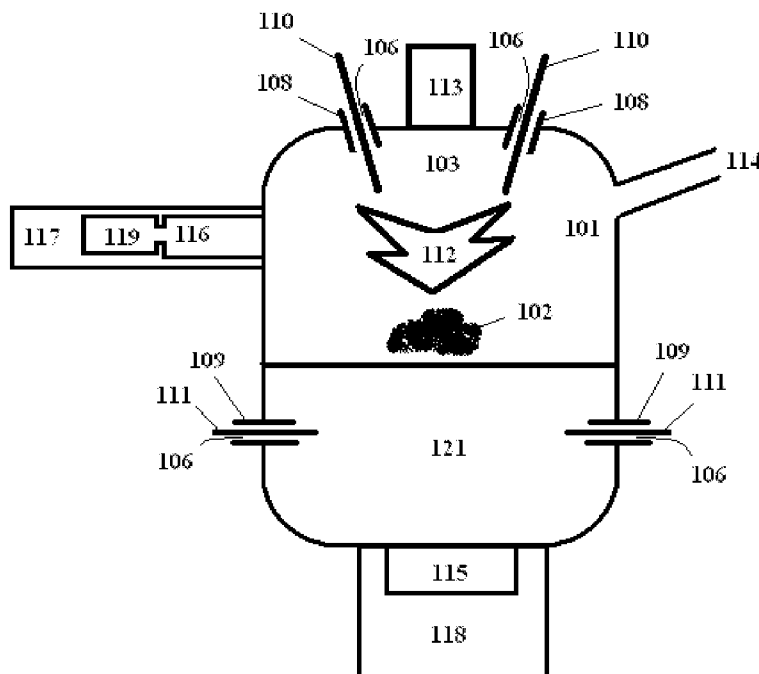
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[Continued on next page]

(54) Title: PRESSURIZED PLASMA ENHANCED REACTOR

Fig. 3



[Continued on next page]

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**(57) Abstract:** The present invention relates to a plasma gasification system and a method that converts organic materials into syngas and operates at pressures over 2 atmospheres. The system includes a processing chamber having a material inlet port, a gas inlet port, a molten glass drain port and ports to introduce electrodes. The system also has seals for effectively sealing the electrodes and the ports to the processing chamber in order to avoid expulsion of products through the ports.

# INTERNATIONAL SEARCH REPORT

International application No PCT/US2010/036250
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**A. CLASSIFICATION OF SUBJECT MATTER**  
 INV. C10J3/57 F23G5/08 H05B7/12 C10J3/08  
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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)  
 C10J B01J F23G H05B H01H C03B

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 practical, search terms used)  
 EPO-Internal, WPI Data

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 018 542 A (BERGER DOUGLAS N [US]) 25 January 2000 (2000-01-25)	4
Y	column 1, lines 4-10 column 1, line 56 - column 2, line 9 column 2, lines 36-45 column 3, lines 7-21 column 4, lines 40-65 column 6, lines 1-11 claim 1; figures 1,2	5-18
X	US 5 143 000 A (CAMACHO SALVADOR L [US]) 1 September 1992 (1992-09-01)	1,4
Y	column 1, lines 6-10 column 2, lines 20-51 claims 1,9; figure 1	2,3
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Further documents are listed in the continuation of Box C.       See patent family annex.

\* Special categories of cited documents :

<p>"A" document defining the general state of the art which is not considered to be of particular relevance</p> <p>"E" earlier document but published on or after the international filing date</p> <p>"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)</p> <p>"O" document referring to an oral disclosure, use, exhibition or other means</p> <p>"P" document published prior to the international filing date but later than the priority date claimed</p>	<p>"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</p> <p>"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</p> <p>"Y" document of particular relevance; the claimed invention cannot be considered to involve 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.</p> <p>"&amp;" document member of the same patent family</p>
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Date of the actual completion of the international search <b>26 November 2010</b>	Date of mailing of the international search report <b>13/12/2010</b>
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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  <p style="text-align: center; font-weight: bold;">Baumlin, Sébastien</p>
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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
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Y	US 3 841 239 A (NAKAMURA T ET AL) 15 October 1974 (1974-10-15) column 5, line 64 - column 8, line 13 figure 4	13-18
Y	US 4 431 612 A (BELL CHRISTY W [US] ET AL) 14 February 1984 (1984-02-14) column 3, line 49 - column 4, line 26 column 5, lines 8-25 column 11, lines 8-18 figures 1,3	13-18
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Information on patent family members

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