

INTERNATIONAL SEARCH REPORT

International application No

PCT/EP2009/000730

A. CLASSIFICATION OF SUBJECT MATTER

INV. C10B49/16 C10G1/00 C10G1/02

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)

C10B C10G

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	<p>Asmund Vego, Scott D. Carter, John L. Stehn: "Utilization of spent oil shale in a fluidized bed process"</p> <p>August 1993 (1993-08), pages 972-978, XP002560564</p> <p>Retrieved from the Internet: URL:http://www.anl.gov/PCS/acsfuel/preprint%20archive/Files/38_3_CHICAGO_08-93_0972.pdf> [retrieved on 2009-12-14] page 974; figures 1,2</p> <p style="text-align: center;">----- -/--</p>	1-30

 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

- *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 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.
- * & * document member of the same patent family

Date of the actual completion of the international search

4 January 2010

Date of mailing of the international search report

13/01/2010

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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.
X	US 3 093 571 A (FISH LEONARD W ET AL) 11 June 1963 (1963-06-11) claim 1; figure 1 column 1, line 10 - line 20 column 2, line 31 - line 68 column 3, line 19 - line 55 column 4, line 70 - line 75 -----	1-30
Y	US 4 507 195 A (SPARS BYRON G [US] ET AL) 26 March 1985 (1985-03-26) cited in the application claim 1; figure 1 column 2, line 7 - line 10 column 3, line 1 - column 4, line 47 -----	1-30
Y	DATABASE WPI Week 200173 Thomson Scientific, London, GB; AN 2001-632131 XP002560560 & JP 2001 241611 A (MITSUBISHI JUKOGYO KK) 7 September 2001 (2001-09-07) the whole document & JP 2001 241611 A (MITSUBISHI HEAVY IND LTD) 7 September 2001 (2001-09-07) -----	1-30
Y,P	WO 2008/113553 A1 (OUTOTEC OYJ [FI]; MISSALLA MICHAEL [DE]; SCHNEIDER GUENTER [DE]; KLETT) 25 September 2008 (2008-09-25) figure 2 -----	1-30
X,P	WO 2009/010157 A2 (OUTOTEC OYJ [FI]; ANASTASIJEVIC NIKOLA [DE]; SCHNEIDER GUENTER [DE]; M) 22 January 2009 (2009-01-22) the whole document -----	1-30
A	US 4 157 245 A (MITCHELL DAVID S [US] ET AL) 5 June 1979 (1979-06-05) the whole document -----	1-30

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/EP2009/000730

Patent document cited in search report	A	Publication date	Patent family member(s)	Publication date
US 3093571	A	11-06-1963	NONE	
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