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INTERNATIONAL SEARCH REPORT

 International application No.
PCT/MY2014/050014

A. CLASSIFICATION OF SUBJECT MATTER

C10J 3/56 (2006.01) B01J 8/14 (2006.01) B04C 5/26 (2006.01) C10J 3/48 (2006.01) C10B 49/12 (2006.01)

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)

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)

WPI and EPODOC: IPC and CPC symbols (C10J, C10B49/12, C10J3, B01J8/14, B04C and similar symbols) with key-words (GASIFICATION, PYROLYSIS, TORREFACTION, CYCLONE, VORTEX, CENTRIFUGAL, WHIRL, SWIRL and similar terms)

Applicant/inventor search on EPODOC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
	Documents are listed in the continuation of Box C	



Further documents are listed in the continuation of Box C



See patent family annex

* "A"	Special categories of cited documents: document defining the general state of the art which is not considered to be of particular relevance	"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
"E"	earlier application or patent but published on or after the international filing date	"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
"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)	"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
"O"	document referring to an oral disclosure, use, exhibition or other means	"&"	document member of the same patent family
"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 16 July 2015		Date of mailing of the international search report 16 July 2015	
Name and mailing address of the ISA/AU AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA Email address: pct@ipaustalia.gov.au		Authorised officer Rajeev Deshmukh AUSTRALIAN PATENT OFFICE (ISO 9001 Quality Certified Service) Telephone No. 0399359622	

INTERNATIONAL SEARCH REPORT C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		International application No. PCT/MY2014/050014
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 2013/006035 A1 (REGENERGY RESOURCES SDN BHD) 10 January 2013 Figure 1; page 7 line 11–page 11 line 24	1–15
A	NL 8701523 A (VAN DE WATER TE NUENEN. A.F.M.) 16 January 1989 Figures 1–2; page 2 line 3–page 7 line 18	1–15
A	DE 32 17 422 A1 (FRITZ WERNER INDUSTRIE-AUSRÜSTUNGEN GMBH) 10 November 1983 Figures 1–2; pages 7–12	1–15
A	WO 1999/066008 A1 (GRAVESON ENERGY MANAGEMENT LTD.) 23 December 1999 Abstract; figure 1	1–15

INTERNATIONAL SEARCH REPORT		International application No.	
Information on patent family members		PCT/MY2014/050014	
This Annex lists known patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.			
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Form PCT/ISA/210 (Family Annex)(July 2009)			

INTERNATIONAL SEARCH REPORT		International application No.	
Information on patent family members		PCT/MY2014/050014	
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