

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	WO 2010/049821 A2 (ENKHBOLD CHULUUN [MN]; BRODT ALEXANDER [MN]) 6 May 2010 (2010-05-06) * paragraphs [0009], [0036] - paragraph [0040]; claims 1,2; figure 1 *	1-13	INV. E21B43/013 E21B43/20 E21B43/24 C10L3/06 F25J1/02
X	US 1 157 993 A (MCELROY KARL P [US]) 26 October 1915 (1915-10-26) * paragraph [0002]; claim 1; figure 1 *	1-13	C10L1/32 C10L9/00 C10L9/04 C10L9/10
A	SU 486 772 A1 (VORON TECHN INST) 5 October 1975 (1975-10-05) * paragraph [0003]; figure 1 *	1-13	C22B1/00 E21C41/00 B03B9/00 B03D1/00 B03D3/00 B03D103/08 B01J19/00 B01J19/18
			TECHNICAL FIELDS SEARCHED (IPC)
			B01J C10G
The supplementary search report has been based on the last set of claims valid and available at the start of the search.			
Place of search The Hague		Date of completion of the search 2 February 2017	Examiner Deurinck, Patricia
CATEGORY OF CITED DOCUMENTS		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document			



**SUPPLEMENTARY
EUROPEAN SEARCH REPORT**

Application Number
EP 14 82 6557

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
			B01J4/00 C10G1/06 C10G1/08
			TECHNICAL FIELDS SEARCHED (IPC)
<p>The supplementary search report has been based on the last set of claims valid and available at the start of the search.</p>			
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EPO FORM 1503 03.82 (P04N04)

CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing claims for which payment was due.

- Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due and for those claims for which claims fees have been paid, namely claim(s):
- No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due.

LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

see sheet B

- All further search fees have been paid within the fixed time limit. The present (supplementary) European search report has been drawn up for all claims.
- As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.
- Only part of the further search fees have been paid within the fixed time limit. The present (supplementary) European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:
- None of the further search fees have been paid within the fixed time limit. The present (supplementary) European search report has been drawn up for those parts of the European patent application which relate to the first mentioned in the claims, namely claims:

1-13



**LACK OF UNITY OF INVENTION
SHEET B**

Application Number
EP 14 82 6557

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. claims: 1-13

A method and apparatus of separating and hydrogenating
combustible material;

2. claims: 14, 15

a hydrogenation unit

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 14 82 6557

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

02-02-2017

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 2010049821 A2	06-05-2010	CN 102203216 A	28-09-2011
		EA 201170614 A1	30-03-2012
		US 2011203164 A1	25-08-2011
		WO 2010049821 A2	06-05-2010
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US 1157993	A	26-10-1915	NONE

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