

12

**EUROPEAN PATENT APPLICATION**

21 Application number: 80303445.3

51 Int. Cl.<sup>3</sup>: **C 10 G 1/02**  
**C 10 G 1/08**

22 Date of filing: 30.09.80

30 Priority: 01.10.79 US 80830  
01.10.79 US 80831  
01.10.79 US 80832

43 Date of publication of application:  
08.04.81 Bulletin 81/14

88 Date of deferred publication of search report: 07.10.81

84 Designated Contracting States:  
BE CH DE FR GB IT LI LU NL SE

71 Applicant: **THE STANDARD OIL COMPANY**  
Midland Building  
Cleveland, Ohio 44115(US)

72 Inventor: **Alford, Harvey Edwin**  
177 Orchard Hill Drive  
Amherst Ohio 44001(US)

72 Inventor: **Mohundro, Edgar Lucian**  
2424 Lancelot Drive  
Baton Rouge Louisiana 70816(US)

72 Inventor: **Rightmire, Robert A.**  
7202 Natalie Blvd.  
Northfield Ohio 44067(US)

74 Representative: **Smith, Sydney et al,**  
Elkington and Fife High Holborn House 52/54 High  
Holborn  
London WC1V 6SH(GB)

54 **Process for the production of coke and a liquid product.**

57 Greater than expected amounts of liquid products are produced by a coking operation in which the feed is composed of a mixture of petroleum residua and shale oil residua. The yield of liquid products is further enhanced by including in the feed a hydrogen catalyst. The yield of liquid products, is still further enhanced by using a hydrocracking catalyst as the hydrogen catalyst and supplying hydrogen to the coking operation. Typical hydrocracking catalysts are NiMo, CoMo, NiW and CoW, which may include an alumina support.

**EP 0 026 670 A3**



European Patent  
Office

# EUROPEAN SEARCH REPORT

0026670

Application number

EP 80 30 3445

DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (Int. Cl. 3)
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	
	<u>US - A - 3 093 571</u> (FISH et al.) * Column 4, lines 45-50; claims 1,6,11; drawing *	1	C 10 G 9/00 C 10 B 55/00
	--		
A	<u>US - A - 3 310 484</u> (MASON et al.)		
A	<u>US - A - 3 085 061</u> (METRAILER)		
A	<u>US - A - 3 560 367</u> (PARKER)		
A	<u>DE - A - 2 024 804</u> (GREAT LAKES CARBON CORP.)		
	-----		
			TECHNICAL FIELDS SEARCHED (Int. Cl. 3)
			C 10 G 1/02 9/00 1/00 9/02 9/06 9/26 9/28 9/30 9/32 C 10 B 55/00 C 10 G 47/00 C 10 G 47/22
			CATEGORY OF CITED DOCUMENTS
			X: particularly relevant A: technological background O: non-written disclosure P: intermediate document T: theory or principle underlying the invention E: conflicting application D: document cited in the application L: citation for other reasons
			&: member of the same patent family, corresponding document
The present search report has been drawn up for all claims			
Place of search	Date of completion of the search	Examiner	
The Hague	06-07-1981	DE HERDT	