

11 Publication number:

0 195 539 A3

(12)

EUROPEAN PATENT APPLICATION

(21) Application number: **86301399.1**

(51) Int. Cl.4: C10G 1/06

2 Date of filing: 27.02.86

3 Priority: 22.03.85 US 714777

Date of publication of application:24.09.86 Bulletin 86/39

Designated Contracting States: AT BE CH DE FR GB IT LI NL

Date of deferred publication of the search report:
30.03.88 Bulletin 88/13

- 7) Applicant: MOBIL OIL CORPORATION 150 East 42nd Street New York New York 10017(US)
- Inventor: Rudnick, Leslie Robert
 Winthrop Road
 Lawrenceville New Jersey 08648(US)
- Representative: Cooper, John Anthony et al Mobil Court 3 Clements Inn London WC2A 2EB(GB)

- 54 Hydrogenation process.
- Active sulfur compounds, especially thiols and thiophenols are effective catalysts for hydrogen transfer reactions, catalyzing the transfer of hydrogen from aliphatic and alkylaromatic compounds. A preferred hydrogen donor is shale oil which may be used as the donor solvent in a coal liquefaction process in which a thiol or thiophenol is used as a catalyst to promote transfer of hydrogen from the shale oil to the coal.

EUROPEAN SEARCH REPORT

86 30 1399

]	DOCUMENTS CONS	DERED TO BE RELE	VANT	
ategory		indication, where appropriate,	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. 4)
A	DE-A-2 823 812 (MC * Claim 1; page 14,	BIL) lines 11-18 *	1,4-6,8	
A	US-A- 443 321 (CC * Claims 1,5,8; col	MPTON) umn 5, lines 4-16 *	1,2-6,9 -11	
E	EP-A-0 175 511 (MC * Claims 1,5,6 *	BIL)	1,6	
	40 400 400 400 400			
3				
				TECHNICAL FIELDS SEARCHED (Int. Cl.4)
		•		C 10 G
			-	
	The present search report has be	een drawn up for all claims		
THE	Place of search HAGUE	Date of completion of the sear 18-12-1987		Examiner IERDT O.C.E.

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

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

EPO FORM 1503 03.82 (P0401)

