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(54) Coking residuum in the presence of hydrogen donor.

(57) The present invention provides a method for treating heavy hydrocarbonaceous oil feedstock, comprising:

(a) heating said feedstock to a temperature from 420°C to 500°C in a heating zone to form a reaction mass;

(b) maintaining said reaction in a coking zone at a temperature from 400°C to 490°C and pressure from 101 kPa to 600 kPa for a residence time of from 5 to 60 minutes; and

(c) recovering liquid hydrocarbon products and coke from said coking zone.

characterised in that: prior to said heating step, said heavy hydrocarbonaceous feedstock is mixed with a hydrogen-donating hydrocarbon diluent boiling in a range from 180°C to 400°C at atmospheric pressure in a ratio to said feedstock of .02:1 to 1.0:1 by weight in a mixing zone.

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EUROPEAN SEARCH REPORT

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EP 85 30 1883

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. 4)
A	DE-A-2 949 935 (METALLGESELLSCHAFT AG) * Claims 1,4,5,8,9; page 5, lines 31-34; page 6, lines 2-6; page 7, lines 11-20 *	1,3	C 10 G 47/34 C 10 B 55/00
D,A	US-A-3 617 513 (E.L. WILSON Jr. et al.) * Claims 1,3; column 4, line 73 -column 5, line 60; column 9, lines 7-38; figures *	1-3,6,7,10	
A	EP-A-0 008 493 (CONOCO INC.) * Claims 1-3; page 3, line 1 - page 5, line 17 * & US-A-4 213 846 (Cat. D)	1,2,4,5,7,9	
D,A	US-A-4 385 980 (M.C. SOOTER)		TECHNICAL FIELDS SEARCHED (Int. Cl. 4) C 10 G C 10 B
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 08-04-1987	Examiner DE HERDT O.C.E.
CATEGORY OF CITED DOCUMENTS 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			