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(54) **Catalytic cracking of hydrocarbons**

(57) A novel catalyst is produced by concentrating non-organic elements found in used lubricating oil. Chemically refining used lubricating oil with a strong acid yields a concentrated residue which produces a porous solid when remaining hydrocarbons are thermally cracked whilst passing a hydrocarbon gas through the

residue. In the porous solid, the non-organic elements from the used lubricating oil are embedded in a carbon-based matrix.

The catalyst may be used to crack long-chain hydrocarbons at temperatures as low as about 320°C in the presence of hydrogen or a hydrocarbon gas.

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EUROPEAN SEARCH REPORT

Application Number
EP 99 30 8163

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.7)
A	EP 0 211 981 A (ASHLAND OIL INC) 4 March 1987 (1987-03-04) ---		C10G11/02
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			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			C10G B01J
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 5 April 2001	Examiner Michiels, P
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			

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

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