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(54) **FCC processing using catalyst compositions containing metal ion-exchanged zeolites.**

(57) A zeolite composition comprising a zeolite incorporated within a matrix, which zeolite contains ions of a metal selected from zinc, titanium, copper, chromium, manganese, cobalt, gallium, germanium, indium, tin, antimony and iron, and especially zinc, when used as a catalyst in hydrocarbon cracking, especially FCC, exhibits simultaneously activity enhancement, enhanced aromatic and branched chain paraffins in the gasoline fraction and passivation of both nickel and vanadium.

The catalyst composition can be prepared by incorporating a zeolite, especially zeolite Y, in a matrix material to provide a zeolite composition and thereafter subjecting the composition to metal ion-exchange.



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EUROPEAN SEARCH REPORT

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EP 91 30 5241

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.5)
X	WO-A-8 203 225 (ASHLAND OIL) * page 20, line 21 - page 21, line 4; claims 1-8, 10, 14, 29-38 *	1-10, 12, 15, 16, 18, 21-30, 32, 35, 36, 38, 41	C10G11/05 B01J29/10
X	US-A-4 083 807 (GULF) * column 2, line 18 - column 4, line 7; claims 1, 2; examples 1, 2 *	1-12, 15-18, 21-33, 35-38, 40-41	
D, X	GB-A-1 393 501 (MOBIL OIL) * claims 1-12 *	1-41	
A	FR-A-2 335 580 (STANDARD OIL) * page 21, line 9 - line 32; claims 1-20 *	1-41	TECHNICAL FIELDS SEARCHED (Int. Cl.5)
A	GB-A-2 074 602 (GRACE) * the whole document *	1-41	C10G
A	US-A-4 363 720 (SATNDARD OIL)		
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 28 FEBRUARY 1992	Examiner MICHIELS P.
<p>CATEGORY OF CITED DOCUMENTS</p> <p>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</p> <p>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</p>			

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