



[12] Patent

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[21] Application No.: GCC/P/2000/695 [22] Filing Date: 04/06/2000 [30] Priority: [31] Priority No. [32] Priority date [33] State 60/137933 07/06/1999 US [72] Inventors: 1- Marcel J G Janssen, 2- Cornelis W. M. Van Oorschot, 3- Ronald G. Searle, 4- Wilfried J. Mortier, 5- Luc Roger Marc Martens, 6- Shun C. Fung, 7- Stephen N. Vaughn, 8- Machteld Maria Mertens [73] Owner: Exxonmobil Chemical Patents, Inc., 5200 Bayway Drive, Baytown, Texas 77522, USA [74] Agent: Saud M. A. Shawwaf	[51] Int. Cl. ⁷ : B01J 29/85; C07C 1/20; C07C 11/02; C10G 3/00 [56] Cited Documents: - WO 98/29363 A (EXXON CHEMICAL PATENTS INC) 09 July 1998 - US 5663471 A (WENDELBO RUNE et al.) 02 September 1997 - US 4681864 A (EDWARDS GRANT C. et al.) 21 July 1987 - US 4440871 A (MESSINA CELESTE A. et al.) 03 April 1984 - US 4 302 565 A (GOEKE GEORGE L. et al.) 24 November 1981

[54] PROTECTING CATALYTIC ACTIVITY OF A SAPO MOLECULAR SIEVE

[57] Abstract: This invention is directed to a method of making an olefin product from an oxygenate feedstock and a method of protecting catalytic activity of a silicoaluminophosphate molecular sieve. The methods comprise providing a silicoaluminophosphate molecular sieve having catalytic sites within the molecular sieve and contacting the sieve with an oxygenate feedstock under conditions effective to produce an olefin product, wherein the silicoaluminophosphate molecular sieve contacting the oxygenate feedstock has a methanol uptake index of at least 0.15.

No. of claims: 30

No. of figures: 3