



[12] Patent

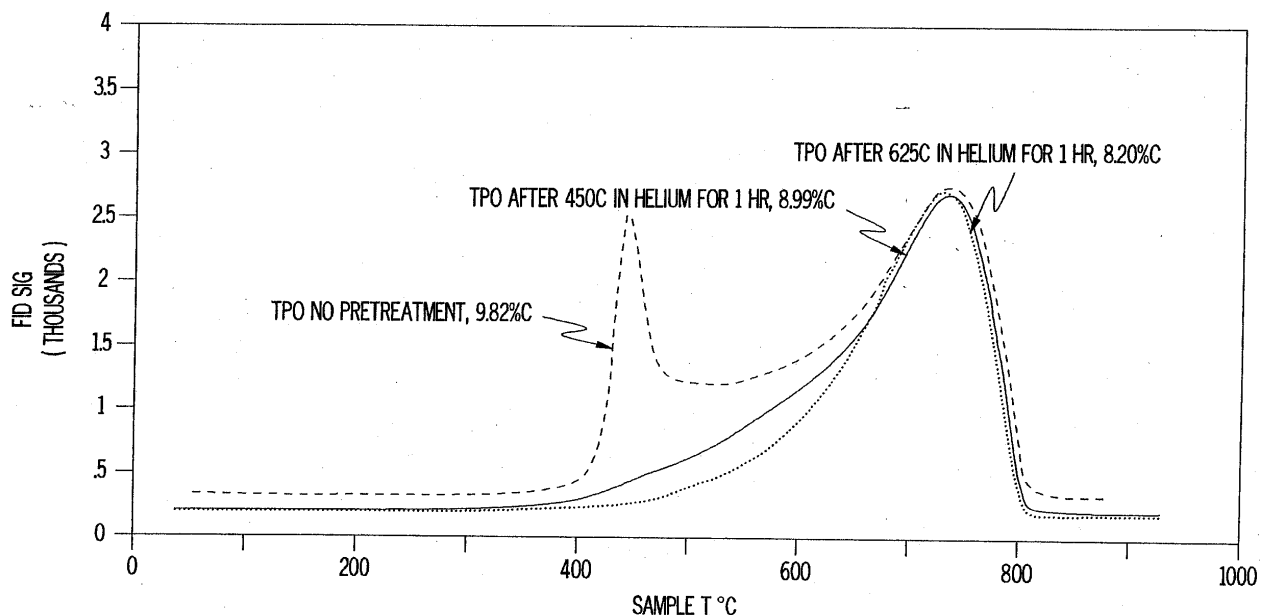
[11] Patent No.: GC 0000146	Number of the Decision to Grant the Patent: 4/706
[45] Date of Publishing the Grant of the Patent: 29/06/2005 4/2005	Date of the Decision to Grant the Patent: 19/04/2004
[21] Application No.: GCC/P/2000/993 [22] Filing Date: 06/11/2000 [30] Priority: [31] Priority No. [32] Priority date [33] State 60/137997 07/06/1999 US [72] Inventors: 1- Shun C. Fung, 2- Stephen N. Vaughn, 3- Yi-Gang Xiong, 4- Ronald G. Searle, 5- Wilfried J. Mortier, 6- Richard Hall, 7- Albert E. Schweizer, 8- Marcel J G Janssen, 9- Luc Roger Marc Martens, 10- Machteld Maria Mertens [73] Owner: Exxonmobile Chemical Patents Inc., 5200 Bayway Drive, Baytown, Texas 77520, USA [74] Agent: Saud M. A. Shawwaf	[51] Int. Cl. <sup>7</sup> : C01B 37/00, 39/02; B01J 29/04; C07C 1/00 [56] Cited Documents: - US 4681864 A (EDWARDS GRANT C et al.) 21 July 1987 - US 4842714 A (PELLET REGIS J et al.) 27 June 1989

[54] HEAT TREATING A MOLECULAR SIEVE AND CATALYST

[57] Abstract: Disclosed is a method of heat treating a molecular sieve. The method comprises providing a template-containing molecular sieve, heating the molecular sieve under conditions effective to remove a portion of the template from the molecular sieve, and cooling the heated molecular sieve to leave an amount of template effective to cover catalytic sites within the molecular sieve. A catalyst composition is also provided which comprises a molecular sieve having a microporous structure and a binder, wherein between 10 and 90 vol% of the microporous structure is occupied by a material, the material comprising a template or a carbonaceous residue of a template, and the catalyst composition exhibits a Davison Index of not greater than 30.

No. of claims: 18

No. of figures: 5



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