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(21) International Application Number: PCT/US97/08143 (22) International Filing Date: 21 April 1997 (21.04.97) (30) Priority Data: 08/656,515 / 31 May 1996 (31.05.96) / US (71) Applicant: MOBIL OIL CORPORATION [US/US]; 3225 Gallows Road, Fairfax, VA 22037 (US). <i>check PFS</i> (72) Inventors: HUANG, Tracy, Jau-Hua; 9 Woodfield Lane, Lawrenceville, NJ 08648 (US). WALSH, Dennis, Edward; 36 Redwood Drive, Richboro, PA 18954-1634 (US). <i>CHECK PFS</i> (74) Agents: FURR, Robert, B., Jr. et al.; Mobil Oil Corporation, 3225 Gallows Road, Fairfax, VA 22037 (US).		(81) Designated States: AU, CA, JP, KR, SG , European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published <i>With international search report.</i>
(54) Title: FLUID CATALYTIC ALKYLATION PROCESS (57) Abstract The instant invention relates to a fluid catalytic isoparaffin-olefin alkylation process in which a circulating fluidized-bed reactor is employed and the catalyst is continuously regenerated. A solid catalyst which comprises a large pore zeolite contacts the feed in the riser of the reactor. Both the feed and the catalysts are maintained in vapor phase. Following recovery from the product, at least a portion of the catalyst is recycled to the reactor following steam stripping and gas purging. The remainder is passed to the regenerator for the removal of coke, then is recycled to the riser. C ₃ + alkylate product and isobutane are separated from the hydrocarbon effluent. Isobutane is recycled to the riser.		