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(21) International Application Number: PCT/US95/16006 (22) International Filing Date: 16 November 1995 (16.11.95) (30) Priority Data: 08/342,322 18 November 1994 (18.11.94) US (71) Applicant: MOBIL OIL CORPORATION [US/US]; 3225 Gallows Road, Fairfax, VA 22037 (US). (72) Inventors: ABICHANDANI, Jeevan, Sahib; 19 Chadwick Drive, Voorhees, NJ 08043-2973 (US). BECK, Jeffrey, Scott; 2411 Town Run North, Lawrenceville, NJ 08648 (US). BUNDENS, Robert, Glenn; 15 The Kings Path, Hopewell, NJ 08525-1318 (US). BRECKENRIDGE, Lloyd, Lee; 2029 Naudain Street, Philadelphia, PA 19146-1316 (US). OLSON, David, Harold; 11 Morningside Drive, Hopewell Turnpike, Pennington, NJ 08534-3108 (US). REISCHMAN, Paul, Thomas; 215 Rock Road West, Labertville, NJ 08530-2808 (US). STERN, David, Lawrence; 2411 Town Court N., Lawrenceville, NJ 08648 (US). VENKAT, Chaya, Rao; 35 Littlebrook Road North, Princeton, NJ 08540-4063 (US). (74) Agents: HARRIS, Gerald, L. et al.; Mobil Oil Corporation, 3225 Gallows Road, Fairfax, VA 22037 (US).	(81) Designated States: CA, JP, KR, SG, European patent (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published <i>With international search report.</i> <i>Rim's copy</i> <i>86 9707870-5</i>	
(54) Title: DUAL BED XYLENE ISOMERIZATION (57) Abstract <p>A mixture of aromatic hydrocarbons, comprising ethylbenzene and at least one xylene, is isomerized using a two component catalyst system to convert the ethylbenzene to compounds that may be removed from the aromatic hydrocarbon stream and to produce a product stream wherein the para-xylene concentration is approximately equal to the equilibrium ratio of the para-isomer. The first catalyst comprises an intermediate pore size zeolite that is effective for ethylbenzene conversion. The first catalyst is preferably silica-bound. The second catalyst comprises an intermediate pore size zeolite, which further has a small crystal size and which is effective to catalyze xylene isomerization. Each of the catalysts of this invention may contain one or more hydrogenation/dehydrogenation component.</p>		