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(21) International Application Number: PCT/US00/09000 (22) International Filing Date: 5 April 2000 (05.04.00) (30) Priority Data: 09/286,150 5 April 1999 (05.04.99) US (71) Applicant: GREAT LAKES CHEMICAL CORPORATION [US/US]: One Great Lakes Boulevard, P.O. Box 2200, West Lafayette, IN 47906 (US). (72) Inventors: QIAN, John, Cheng-Ping; Apartment 1, 607 E. 7th Street, El Dorado, AR 71730 (US). SACARIAS, Julia, Ann; 908 West 7th Street, El Dorado, AR 71730 (US). (74) Agent: ANDERSON, Richard, H.; Marshall, O'Toole, Gerstein, Murray & Borun, 6300 Sears Tower, 233 South Wacker Drive, Chicago, IL 60606-6402 (US).	(81) Designated States: AU, CA, IL, KR, NZ, SG, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published <i>With international search report. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i>	
(54) Title: METHOD FOR THE PREPARATION OF 1,1,1,3,3-PENTAFLUOROPROPENE AND 1,1,1,3,3-PENTAFLUOROPROPANE		
(57) Abstract A method for the production of 1,1,1,3,3-pentafluoropropene, and particularly to a method characterized by high conversion, yield and selectivity by contacting 2,2-dichloro-1,1,1,3,3,3-hexafluoropropane with hydrogen in the presence of a metal-containing catalyst. The 1,1,1,3,3-pentafluoropropene then can be reacted with hydrogen in the presence of a metal-containing catalyst to produce 1,1,1,3,3-pentafluoropropane.		