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(21) International Application Number: PCT/US97/15332 (22) International Filing Date: 2 September 1997 (02.09.97) (30) Priority Data: 60/025,368 3 September 1996 (03.09.96) US (71) Applicant (for all designated States except US): E.I. DU PONT DE NEMOURS AND COMPANY [US/US]; 1007 Market Street, Wilmington, DE 19898 (US) (72) Inventors; and (75) Inventors/Applicants (for US only): DRULINER, Joe, Douglas [US/US]; 33 Bridleshire Road, Newark, DE 19711 (US) HERRON, Norman [GB/US]; 408 Apple Road, Newark, DE 19711 (US). (74) Agent: SCHAEFFER, Andrew, L.; E.I. du Pont de Nemours and Company, Legal Patent Records Center, 1007 Market Street, Wilmington, DE 19898 (US).		(81) Designated States: AL, AM, AU, AZ, BA, BB, BG, BR, BY, CA, CN, CU, CZ, EE, GE, HU, IL, IS, JP, KG, KP, KR, KZ, LC, LK, LR, LT, LV, MD, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, SL, TJ, TM, TR, TT, UA, US, UZ, VN, YU, ARIPO patent (GH, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG). Published With international search report.
(54) Title: HYDROPEROXIDE DECOMPOSITION PROCESSES (57) Abstract An improved process for decomposing alkyl or aromatic hydroperoxides to form a decomposition reaction mixture containing the corresponding alcohol and ketone. The improvement relates to decomposing the hydroperoxide by contacting the hydroperoxide with a catalytic amount of a heterogeneous catalyst of Nb or Hf hydroxide or oxide. The improvement also relates to decomposing a secondary hydroperoxide by contacting the secondary hydroperoxide with a catalytic amount of a heterogeneous catalyst of Zr or Ti hydroxide or oxide. The catalysts may optionally be supported on SiO₂, Al₂O₃, carbon or TiO₂.		