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(21) International Application Number: PCT/US00/07596 (22) International Filing Date: 23 March 2000 (23.03.00) (30) Priority Data: 09/275,749 25 March 1999 (25.03.99) US (71) Applicant: MOBIL OIL CORPORATION [US/US]; 3225 Gallows Road, Fairfax, VA 22307-0001 (US). (72) Inventors: LEVIN, Doron; 125 Montgomery Avenue, #D2, Bala Cynwyd, PA 19004 (US). SANTIESTEBAN, Jose, Guadalupe; 191 Applegate Drive, Westchester, PA 19382 (US). VARTULI, James, Clarke; 1346 Morstein Road, West Chester, PA 19380 (US). (74) Agents: KEEN, Malcolm, D. et al.; Mobil Oil Corporation, 3225 Gallows Road, Fairfax, VA 22037-0001 (US).		(81) Designated States: BR, CN, IN, JP, KR, 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: HYDROPEROXIDE DECOMPOSITION PROCESS		
(57) Abstract A process for decomposing a hydroperoxide to form a decomposition product containing a corresponding alcohol and ketone is described in which the hydroperoxide is contacted with a solid-acid catalyst produced by calcining a source of a Group IVB metal oxide with a source of an oxyanion of a Group VIB metal at a temperature of at least 400 °C. In particular there is described a process for decomposing cumene hydroperoxide to produce phenol and acetone.		