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(21) International Application Number: PCT/US99/01945 (22) International Filing Date: 28 January 1999 (28.01.99) (30) Priority Data: 09/085,478 27 May 1998 (27.05.98) US (71) Applicant: DS2 TECH, INC. [US/US]; 400 N.W. Ninth Street, Galva, IL 61434 (US). (72) Inventors: JEANBLANC, James, K.; 400 N.W. Ninth Street, Galva, IL 61434 (US). WISMANN, William, E.; 140 4th Avenue South, Clinton, IA 52732 (US). (74) Agent: KONDZELLA, Michael, A.; Oppenheimer Wolff & Donnelly LLP, Suite 3800, 2029 Century Park East, Los Angeles, CA 90067-3024 (US).		(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i>
(54) Title: DESULFURIZATION PROCESS (57) Abstract Sulfur-containing carbonaceous materials are desulfurized by reaction with a mixture of an oxidizing agent and a carbonyl compound under alkaline conditions at a temperature ranging from ambient temperature to about 250 °F and a pressure of about 1 atmosphere to 2 atmospheres. The products of the reaction are a desulfurized carbonaceous material in which the sulfur content is less than about 1 %, and gaseous sulfur compounds. The carbonyl compound can be recovered and reused.		