

PCT

WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : F23G 5/00, 5/12, 7/04, F23D 14/00, B09B 3/00		(11) International Publication Number: WO 96/07054
A1		(43) International Publication Date: 7 March 1996 (07.03.96)
(21) International Application Number: PCT/US95/10437		(81) Designated States: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, <u>SG</u> , SI, SK, TJ, TM, TT, UA, UG, UZ, VN, European patent (AT, BE, CH, DE, DK, ES, 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), ARIPO patent (KE, MW, SD, SZ, UG).
(22) International Filing Date: 17 August 1995 (17.08.95)		
(30) Priority Data: 08/296,557 ✓ 26 August 1994 (26.08.94) ✓ US ✓		
(71) Applicant: MINERGY CORP. [US/US]; 231 West Michigan Avenue, Milwaukee, WI 53203 (US).		
(72) Inventors: NECHVATAL, Timothy, M.; 1260 Hawthorne Ridge Drive, Brookfield, WI 53045 (US). JANSEN, Thomas, J.; 11631 North Grace Court 41W, Mequon, WI 53092 (US).		
(74) Agent: EHRMANN, Thomas, W.; Quarles & Brady, 411 East Wisconsin Avenue, Milwaukee, WI 53202-4497 (US).		Published 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>RTMP's copy + IPER + Annexes</i>

(54) Title: CONVERTING PAPER MILL SLUDGE OR THE LIKE

(57) Abstract

Paper mill sludge or similiar organic sludges with a high ash content are converted by burning the sludge in a cyclone furnace (10) along with another source of fuel. The heat content of the sludge is recovered and the ash content of the sludge is converted to a glassy slag. A flux, such as limestone, may be added to the sludge before introduction into the cyclone furnace (10). The slag is useful as a construction material, an abrasive, for roofing products, or for other purposes.

