



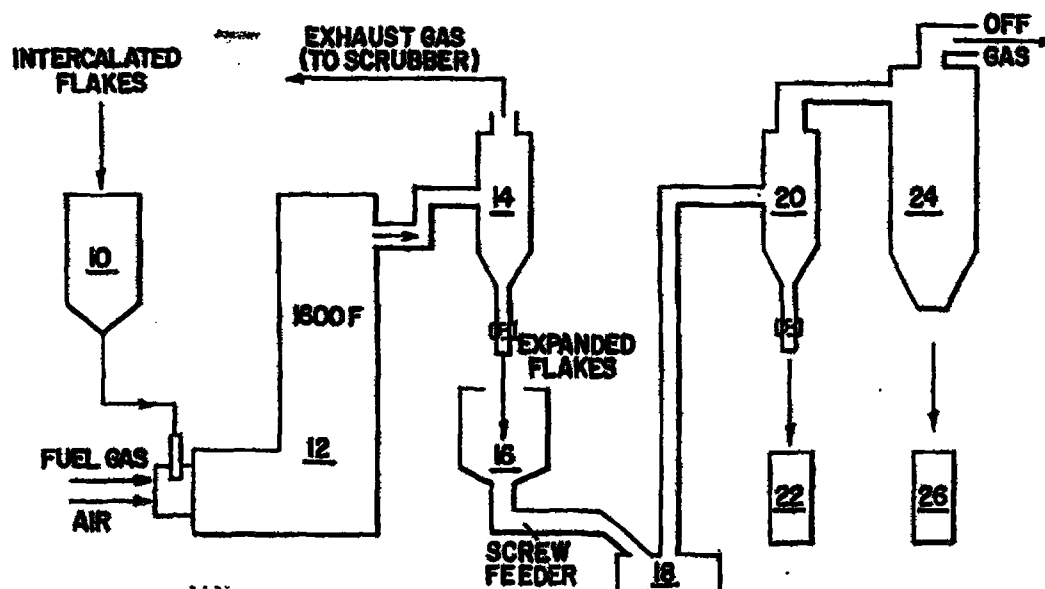
PCT

WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6 : D01F 9/12		A1	(11) International Publication Number: WO 99/46437
			(43) International Publication Date: 16 September 1999 (16.09.99)
(21) International Application Number: PCT/US99/05208		(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HU, ID, IL, 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, US, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, 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).	
(22) International Filing Date: 10 March 1999 (10.03.99)			
(30) Priority Data: 60/077,894 13 March 1998 (13.03.98) US 09/253,957 22 February 1999 (22.02.99) US			
(71) Applicant (for all designated States except US): SUPERIOR GRAPHITE CO. [US/US]; Suite 1600, 10 South Riverside Plaza, Chicago, IL 60606 (US).			
(72) Inventors; and (75) Inventors/Applicants (for US only): ZALESKI, Peter, L. [-/US]; 155 Glennwood, Willow Springs, IL 60480 (US). DERWIN, David, J. [-/US]; 1541 Quaker Lane, Prospect Heights, IL 60070 (US). GIRKANT, Richard, J. [-/US]; Apartment 203, 18762 E. Salem Court, Lansing, IL 60438 (US).		Published With international search report.	
(74) Agent: HELLER, Stephen, B.; Cook, McFarron & Manzo, Ltd., Suite 2850, 200 West Adams Street, Chicago, IL 60606 (US).			

(54) Title: METHOD FOR EXPANDING LAMELLAR FORMS OF GRAPHITE AND RESULTANT PRODUCT



(57) Abstract

A method for making expanded graphite from lamellar flake graphite comprising first providing lamellar flake graphite particles having at least a minimal purity, then intercalating the lamellar flake graphite particles with an expandable graphite intercalation compound, followed by expanding the graphite intercalation compound to exfoliate the flake graphite particles, and finally air milling the exfoliated flake graphite particles to further delaminate them.