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(21) International Application Number: PCT/GB97/02141 (22) International Filing Date: 8 August 1997 (08.08.97) (30) Priority Data: 9617444.6 20 August 1996 (20.08.96) GB (71) Applicant (for all designated States except US): INTEROTEX LIMITED [GB/GB]; Block C-G, 100 Thames Valley Park Drive, Reading, Berkshire RG6 1PT (GB). (72) Inventors; and (75) Inventors/Applicants (for US only): WINNINGTON, Terence, Leslie [GB/GB]; Hillside House, Jacobs Knoll, Burleigh, Stroud GL5 2PR (GB). SOMERVELL, Thomas [GB/GB]; 5 Greswolds Park Road, Acocks Green, Birmingham B27 6QD (GB). (74) Agents: NEWELL, William, Joseph et al.; Wynne-Jones, Laine and James, 22 Rodney Road, Cheltenham GL50 1JJ (GB).		(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, HU, 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, 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 <i>With international search report.</i>

(54) Title: **BURNER ASSEMBLIES**

(57) Abstract

A burner assembly (20) comprises a number of gas burners (22) each utilising a radiant ceramic plaque (24). The burners (22) are disposed in confined combustion chambers (28) whence they direct heat towards a heat-receiving surface (14). By this arrangement the plaque (24) receives a substantial amount of back radiation thereby increasing plaque temperature, shortening flame length and reducing flame temperature. This improves the efficiency of the burner assembly and also reduces NO_x emission levels.

