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(21) International Application Number: PCT/GB97/02832 (22) International Filing Date: 14 October 1997 (14.10.97) (30) Priority Data: 9621405.1 14 October 1996 (14.10.96) GB (71) Applicant (for all designated States except US): NATIONAL POWER PLC [GB/GB]; Windmill Hill Business Park, Whitehill Way, Swindon, Wiltshire SN5 6PB (GB) (72) Inventors; and (75) Inventors/Applicants (for US only): CONEY, Michael, Willoughby, Essex [GB/GB]; The Pinnocks, Broad Town, Swindon SN4 7RG (GB). HUXLEY, Richard, Aidan [GB/GB]; 5 Lethbridge Road, Swindon SN1 4BY (GB). (74) Agent: BOULT WADE TENNANT; 27 Fumival Street, London EC4A 1PQ (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, 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, 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 With international search report.

(54) Title: APPARATUS FOR CONTROLLING GAS TEMPERATURE IN COMPRESSORS

(57) Abstract

An apparatus is provided for controlling gas temperature during compression or expansion. The apparatus comprises a chamber for containing gas, a piston for changing the volume of gas in the chamber, a plurality of atomisers for spraying liquid into the chamber and means for delivering liquid to the atomisers. Each atomiser comprises a spray aperture and means defining a flow path for imparting rotary motion to the flow of liquid about the axis of the aperture so that on leaving the aperture the liquid divides into a conical spray. Spray apertures are positioned adjacent one another and the axes of adjacent spray apertures are oriented such that their respective sprays intersect at a position proximate at least one of the respective adjacent spray apertures.

