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(21) International Application Number: PCT/AU98/00448 (22) International Filing Date: 11 June 1998 (11.06.98) (30) Priority Data: PO 7287 11 June 1997 (11.06.97) AU (71) Applicant (for all designated States except US): CONTAINERS PTY. LTD. [AU/AU]; 240 Geelong Road, West Footscray, VIC 3012 (AU). (72) Inventors; and (75) Inventors/Applicants (for US only): TRAN, Van, Nguyen [AU/AU]; RMIT Bundoora Campus, Plenty Road, Bun- doora, VIC 3083 (AU). PAN, Christopher, Chia, Shyong [AU/AU]; 240 Geelong Road, West Footscray, VIC 3012 (AU). CAREW, David, Lee [AU/AU]; 5 Currunghi Court, St. Albans, VIC 3021 (AU). (74) Agent: GRIFFITH HACK; 509 St. Kilda Road, Melbourne, VIC 3004 (AU).			(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, GW, 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, 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, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i>
(54) Title: PREFERENTIAL HEATING OF MATERIALS BY USE OF NON-IONISING ELECTROMAGNETIC RADIATION			
<pre>graph TD; A[AC supply] --> B[DC Power Supply]; B --> C[Pulsing Circuit Switch]; C --> D[Magnetron]; D --> E[Waveguide]; E --> F[Applicator]; F --> G[HIPM Treatment Chamber or Tunnel];</pre>			
(57) Abstract Method and apparatus for preferential heating of a material are based on exposing the material to high intensity, pulsed, non-ionising electromagnetic radiation. The method can destroy microorganisms, sterilize packaging, or sterilize moist food. An embodiment uses microwave radiation with pulse duration of less than 0.1 second with an average power of at least 1 kW to sterilize open-ended metal cans prior to packaging.			