

PCT

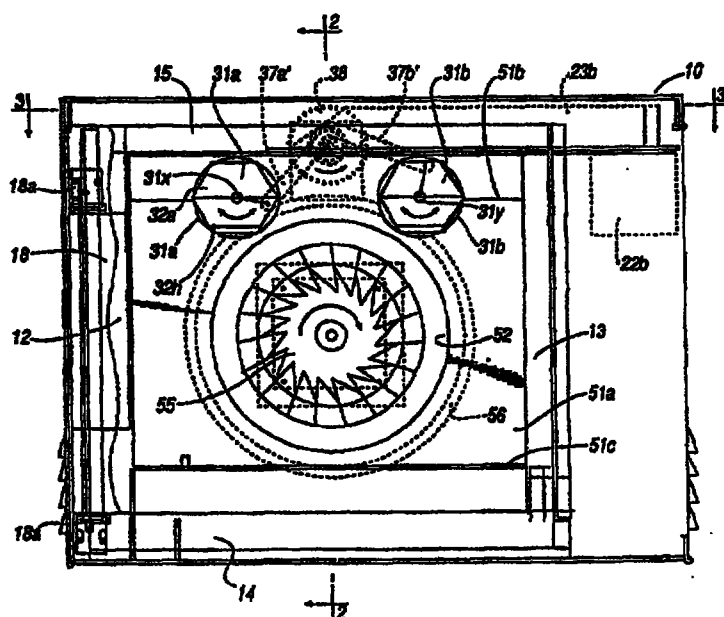
WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : H05B 6/64		A1	(11) International Publication Number: WO 96/39790
			(43) International Publication Date: 12 December 1996 (12.12.96)
(21) International Application Number: PCT/US96/09535 (22) International Filing Date: 4 June 1996 (04.06.96) (30) Priority Data: 08/461,258 5 June 1995 (05.06.95) US (60) Parent Application or Grant (63) Related by Continuation US 08/461,258 (CON) Filed on 5 June 1995 (05.06.95) (71) Applicants (for all designated States except US): PATENT-SMITH TECHNOLOGY, LTD. [US/US]; Suite 1600, 1845 Woodall Rodgers Freeway, Dallas, TX 75201 (US). SMITH, Ester, R. (executrix for the deceased inventor) [US/US]; 5 Glenheather Court, Dallas, TX 75225 (US). (71)(72) Applicant and Inventor: DOBIE, Michael, J. [US/US]; 240 Twin Lakes Court, Double Oak, TX 75067 (US). (72) Inventor: SMITH, Donald, P. (deceased).		(72) Inventors; and (75) Inventors/Applicants (for US only): SPARMAN, Allen, B., Sr. [US/US]; 2104 Rigsbee, Plano, TX 75074 (US). NORRIS, John, R. [US/US]; 1500 Faringdon, Plano, TX 75075 (US). COOPER, Neal, S. [US/US]; 5601 Caracas Drive, Fort Worth, TX 76180 (US). DOUGHERTY, Carl, J. [US/US]; 4145 Steinwick Lane, Grand Prairie, TX 75052 (US). (74) Agents: CRUTSINGER, Gerald, G. et al.; Crutsinger & Booth, Suite 1000, 1601 Elm Street, Dallas, TX 75201-4764 (US). (81) Designated States: AL, AM, AT, AU, AZ, 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, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, ARIPO patent (KE, LS, MW, SD, SZ, UG), 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. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.	

(54) Title: **AIR DISPENSERS FOR MICROWAVE OVEN**



(57) Abstract

A combination microwave and air impingement oven has two magnetrons (22b) and an air handling system that includes two or more reciprocating ducts (31a, 31b) through which air is dispensed into the oven (10). The rotating ducts (31a, 31b) are configured to stir microwave energy in the oven to prevent formation of hot spots and to sweep microwave radiation over the surface of the food product. A foraminous partition, configured to encircle a portion of the cooking chamber, has a central portion and extremities mounted to divide the interior of the cabinet into a cooking chamber and an air heating chamber. The partition extends around a major part of the periphery of the cooking chamber such that air is drawn along multiple paths towards side walls and toward the rear wall from the cooking chamber.