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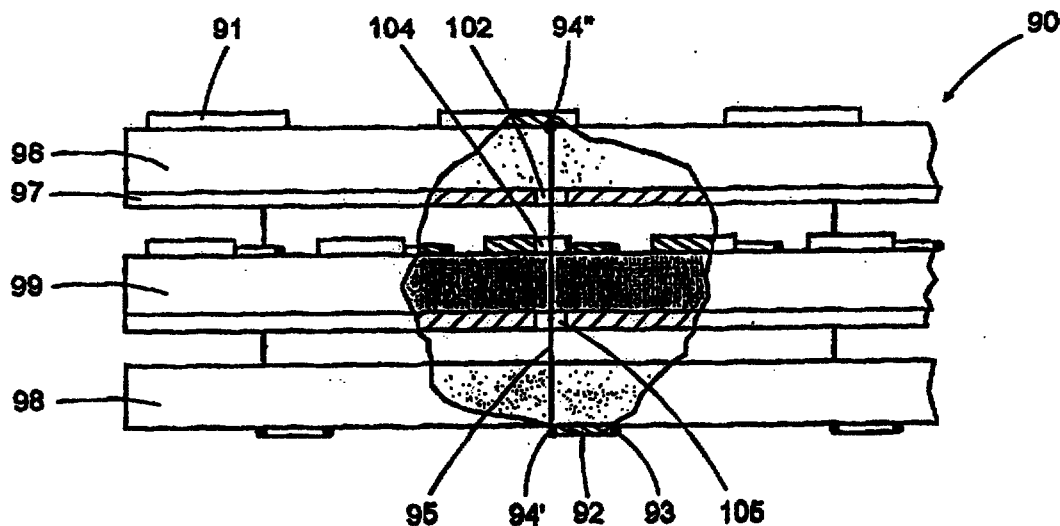


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INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification⁶: H01Q 5/00	A1	(11) International Publication Number: WO 98/01921 (43) International Publication Date: 15 January 1998 (15.01.98)
(21) International Application Number: PCT/IL96/00037 (22) International Filing Date: 4 July 1996 (04.07.96) (71) Applicant (for all designated States except US): MOBILECOMM COMMUNICATIONS, LTD. [IL/IL]; P.O. Box 16, 81550 Yavne (IL). (72) Inventor; and (75) Inventor/Applicant (for US only): LEVI, Shem-Tov [IL/IL]; 76868 Beit-Hanan (IL). (74) Agent: HAUSMAN, Ehud; Reinhold Cohn and Partners, P.O. Box 4060, 61040 Tel Aviv (IL).		(81) Designated States: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, 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 <i>With international search report.</i>

(54) Title: A PLANAR DUAL-FREQUENCY ARRAY ANTENNA



(57) Abstract

A dual-frequency array antenna having an essentially planar structure with electronic beam steering capability in both a low and high frequency band independently of each other, constructed, in a layered formation, from a top planar array antenna unit operating in the low frequency band and a bottom planar array antenna unit operating in the high frequency band. The top planar array antenna is transparent to frequencies in the high frequency band.