Abstracts

Use of a magnetron as a high-gain, phased-locked amplifier in an electronically-steerable phased array for wireless power transmission

M.C. Hatfield, J.G. Hawkins and W.C. Brown. "Use of a magnetron as a high-gain, phased-locked amplifier in an electronically-steerable phased array for wireless power transmission." 1998 MTT-S International Microwave Symposium Digest 98.2 (1998 Vol. II [MWSYM]): 1157-1160.

A conventional microwave oven magnetron is combined with a ferrite circulator to create a high-gain phase-locked amplifier with independent control of frequency and power output. The intended application is for electronically-steerable phased arrays for wireless power transmission.

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