Abstracts

A novel oscillating rectenna for wireless microwave power transmission

J.O. McSpadden, R.M. Dickinson, Lu Fan and Kai Chang. "A novel oscillating rectenna for wireless microwave power transmission." 1998 MTT-S International Microwave Symposium Digest 98.2 (1998 Vol. II [MWSYM]): 1161-1164.

A new concept for solid state wireless microwave power transmission is presented. A 2.45 GHz rectenna element that was designed for over 85% RF to DC power conversion efficiency has been used to oscillate at 3.3 GHz with an approximate 1% DC to RF conversion efficiency. The RF radiation was obtained from the same circuit by supplying the DC output with reverse polarity DC power.

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