

Abstracts

A Microwave Apparatus for Producing Uniform Hyperthermic Temperatures Over Large Surfaces

F. Sterzer, R.W. Paglione, E. Friedenthal and J. Mendecki. "A Microwave Apparatus for Producing Uniform Hyperthermic Temperatures Over Large Surfaces." 1985 MTT-S International Microwave Symposium Digest 85.1 (1985 [MWSYM]): 90-92.

A microwave apparatus that can produce uniform hyperthermic temperatures over large surface fields is described. The apparatus consists of a 2450 MHz power generator, a PIN diode power controller, a low-leakage non-contacting microwave applicator with an integral non-contacting infrared thermometer, a thermostat that provides feedback control and can be set to the desired tissue temperature, and a computer controlled mechanical arm that scans the applicator and the infrared thermometer over the treatment field.

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