

Abstracts

Direct Contact Applicator with Convergent Effect of EM Field for Microwave Hyperthermia

Y. Takahashi, Y. Nikawa, T. Katsumata, S. Mori, M. Nakagawa and M. Kikuchi. "Direct Contact Applicator with Convergent Effect of EM Field for Microwave Hyperthermia." 1985 MTT-S International Microwave Symposium Digest 85.1 (1985 [MWSYM]): 86-89.

A new type applicator for microwave hyperthermia operated at 433 MHz is proposed. This applicator, which is a waveguide array type, has a convergent effect of the electromagnetic field radiated from the applicator, and focal length of can be changeable. The electric field distributions in the model of human tissues from the aperture of the applicator were measured, and the simulation of temperature distributions was performed in the model heated with the applicator.

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