



## Microwave Ablation Antenna System With Reflector And Slot

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### The Invention

An antenna system is provided that includes a coaxial cable, an antenna, a reflector wall, and a slot wall. The reflector wall is formed of a conductive material connected to a conductive shield to extend in an axial direction, is separated from an antenna conductor by a second dielectric material in a radial direction relative to the antenna conductor, and partially surrounds the antenna conductor in the radial direction from a first angle to a second angle when projected into a radial plane. The slot wall is formed through a portion of the conductive shield to expose a dielectric material from a third angle to a fourth angle when projected into the radial plane, is formed on a first side relative to a base. The first angle, the second angle, the third angle, and the fourth angle are defined relative to a common axis parallel to the radial plane.

### Additional Information

#### For More Information About the Inventors

- [Susan Hagness](#)

#### Tech Fields

- [Medical Devices : Medical tools](#)

For current licensing status, please contact Jeanine Burmania at [jeanine@warf.org](mailto:jeanine@warf.org) or 608-960-9846