

ELECTROSURGICAL PROBE FOR DELIVERING MICROWAVE ENERGY**ABSTRACT**

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An electrosurgical instrument for use in minimally invasive surgical techniques that provides a small scale localized microwave field capable of precisely ablating tissue, e.g. in the lungs, through suitable selection of geometry and material for a radiating distal tip thereof. The instrument may be used with a bronchoscope having a power delivery structure formed within the instrument cord thereof. A vision system may be incorporated into the energy delivery structure.

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The instrument comprise a coaxial cable for conveying microwave energy to a radiating tip portion that comprises a dielectric tip and a distal conductive portion that extends longitudinally therein. The dielectric tip has a dielectric constant greater than a dielectric material within the coaxial cable. The distal end of the device is designed to facilitate efficient microwave energy delivery into lung tumour tissue to achieve a localized volume of ablation.

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[Fig. 3]

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