

ABSTRACT

ELECTROSURGICAL APPARATUS FOR DELIVERING RF AND/OR MICROWAVE
ENERGY INTO BIOLOGICAL TISSUE

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An electrosurgical instrument for applying to biological tissue RF electromagnetic energy and/or microwave frequency EM energy, wherein the instrument tip has a protective hull with a smoothly contoured convex undersurface facing away from a planar body, and wherein the planar body has a tapering distal edge, and wherein an underside of the planar body extends beyond the protective hull at the tapering distal edge. Also disclosed herein is an interface joint for integrating into a single cable assembly all of (i) a fluid feed, (ii) a needle movement mechanism, and (iii) an energy feed (e.g. a coaxial cable), and a torque transfer device for permitting controlled rotation of the cable assembly within the instrument channel of an endoscope. The interface joint and torque transfer device may be integrated as a single component.

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FIG. 9B