CLAIMS

1. An isolating circuit for an electrosurgical resection system, the isolating circuit comprising:

a combining circuit (206) having a first input (203) connectable to receive radiofrequency (RF) electromagnetic (EM) radiation having a first frequency from an RF channel, a second input connectable to receive microwave EM radiation having a second frequency that is higher than the first frequency from a microwave channel, and an output (207) in communication with the first and second inputs for conveying the RF EM radiation and the microwave EM radiation to a common signal pathway, and

a waveguide isolator (200) connected to isolate the microwave channel from the RF EM radiation,

wherein the waveguide isolator comprises a conductive input section, a conductive output section which mates with the input section to define a waveguide cavity within a volume enclosed by the input and output sections, and a DC isolation barrier arranged between the input and output sections,

wherein the output from the combining circuit includes a signal conductor and a ground conductor, and

wherein the isolating circuit comprises a capacitive structure between the ground conductor of the output from the combining circuit and the conductive input section of the waveguide isolator, the capacitive structure being arranged to inhibit coupling of the RF EM energy and leakage of the microwave EM energy.

2. An isolating circuit according to claim 1, wherein the capacitive structure is provided by the DC isolation barrier and a microwave choke formed on the input section of the waveguide isolator.

3. An isolating circuit according to claim 2, wherein the inner and outer sections of the waveguide isolator define a cylindrical body, and wherein the microwave choke comprises an annular channel extending

axially from the distal end of the inner section of the waveguide isolator.

4. An isolating circuit according to any one of claims 1 to 3, wherein the DC isolation barrier includes a rigid insulating spacer element mounted between the inner and outer sections of the waveguide isolator.