CLAIMS

1. A microwave ablation probe, comprising:

a microwave emission section, a rigid section, and a flexible section,

wherein the microwave emission section is positioned distal to the rigid section,

wherein the rigid section is positioned distal to the flexible section,

wherein the rigid section comprises one or more protrusions configured to engage with a grasping portion of a laparoscopic instrument,

wherein the microwave emission section is configured to emit microwave energy.

2. The microwave ablation probe of Claim 1,

wherein the microwave emission section is a microwave antenna.

3. The microwave ablation probe of Claim 2,

wherein the microwave antenna comprises a co-axial transmission line.

4. The microwave ablation probe of Claim 2,

wherein the microwave antenna comprises a tri-axial transmission line.

5. The microwave ablation probe of Claim 1,

wherein the rigid section comprises is between approximately 2 to 10 cm in length.

6. The microwave ablation probe of Claim 1, wherein the rigid section has five or more protrusions configured to engage with a grasping portion of a laparoscopic instrument.

7. The microwave ablation probe of Claim 1, wherein the one or more protrusions configured to engage with a grasping portion of a laparoscopic instrument are metal protrusions.

8. The microwave ablation probe of Claim 1, wherein the grasping portion of a laparoscopic instrument is a slotted jaw.

9. A system comprising a microwave ablation probe of Claim 1, and a laparoscopic instrument.

10. The system of Claim 9, wherein the laparoscopic instrument is manually operated.

11. The system of Claim 9, wherein the laparoscopic instrument is robotically operated.

12. The system of Claim 10, further comprising a power supply electrically connected to the microwave ablation probe.