

CLAIMS

~~WE CLAIM:~~

1. An energy delivery device comprising an energy emission region, a main body, a flexible joint, and an adjustable tip,

———wherein the energy emission region is configured to emit ablation energy, wherein the energy emission region comprises a microwave antenna, wherein the microwave antenna is configured to circulate a coolant,

wherein the main body defines a main body linear axis of the energy delivery device,
wherein the flexible joint is positioned between the main body and the adjustable tip,
wherein the flexible joint is configured such that its direction in relation to the main body linear axis is adjustable in any desired direction and can be fixed at such a desired direction,
wherein adjustment of the flexible joint results in identical adjustment of the adjustable tip₁

wherein the energy emission region is positioned entirely within the adjustable tip,
wherein the energy emission region, the main body, the flexible joint, and the adjustable tip have a substantially uniform diameter.

2. The energy delivery device of Claim 1, wherein the flexible joint is configured such that its direction in relation to the main body linear axis is rotatably adjustable in any desired direction.

3. The energy delivery device of Claim 1, wherein the flexible joint is configured such that its direction in relation to the main body linear axis is flexibly adjustable in any desired direction.

4. The energy delivery device of Claim 1, wherein the flexible joint is configured such that its direction in relation to the main body linear axis is manually adjustable in any desired direction.

5. The energy delivery device of Claim 1, wherein the flexible joint is configured such that its direction in relation to the main body linear axis is automatically adjustable in any desired direction.

6. The energy delivery device of Claim 1, wherein the flexible joint is a formable joint.

7. The energy delivery device of Claim 1, wherein the flexible joint is formed from a flexible and adjustable material.

8. The energy delivery device of Claim 1, wherein the energy emission region is configured to emit radiofrequency ablation energy.

9. The energy delivery device of Claim 1, wherein the ~~energy emission region is configured to emit microwave ablation energy~~antenna comprises a co-axial transmission line.

~~10. The energy delivery device of Claim 9, wherein the energy emission region comprises a microwave antenna.~~

~~11. The energy delivery device of Claim 10, wherein the microwave antenna comprises a co-axial transmission line.~~

~~12. The energy delivery device of Claim 10, wherein the microwave antenna comprises a tri-axial transmission line.~~

~~13.~~10. The energy delivery device of Claim 1, wherein the microwave antenna ~~extends entirely through the main body, the flexible joint, and the adjustable tip~~comprises a tri-axial transmission line.

~~14. The energy delivery device of Claim 10, wherein the microwave antenna extends entirely through the main body and the flexible joint, and partially through the adjustable tip.~~

~~15. — The energy delivery device of Claim 10, wherein the microwave antenna extends entirely through the main body and the flexible joint, and not through the adjustable tip.~~

~~16. — The energy delivery device of Claim 10, wherein the microwave antenna extends entirely through the main body and partially through the flexible joint, and not through the adjustable tip.~~

~~17. — The energy delivery device of Claim 10, wherein the microwave antenna extends entirely through the main body and not through the flexible joint and the adjustable tip.~~

~~18~~11. A system comprising the device of Claim 1 and a power supply electrically connected to the energy delivery device.

~~19~~12. The system of Claim ~~18~~11, wherein said power supply generates microwave energy.

~~20. — A method of ablating a tissue region within a sample, comprising
providing an energy delivery device of Claim 1,
adjusting the flexible joint to a desired direction in relation to the main body linear axis,
positioning the energy delivery device to tissue region within the sample, wherein the
sample is within a living human subject,
delivering energy from the energy delivery device to the tissue region within the sample
under conditions such that the tissue region is ablated.~~