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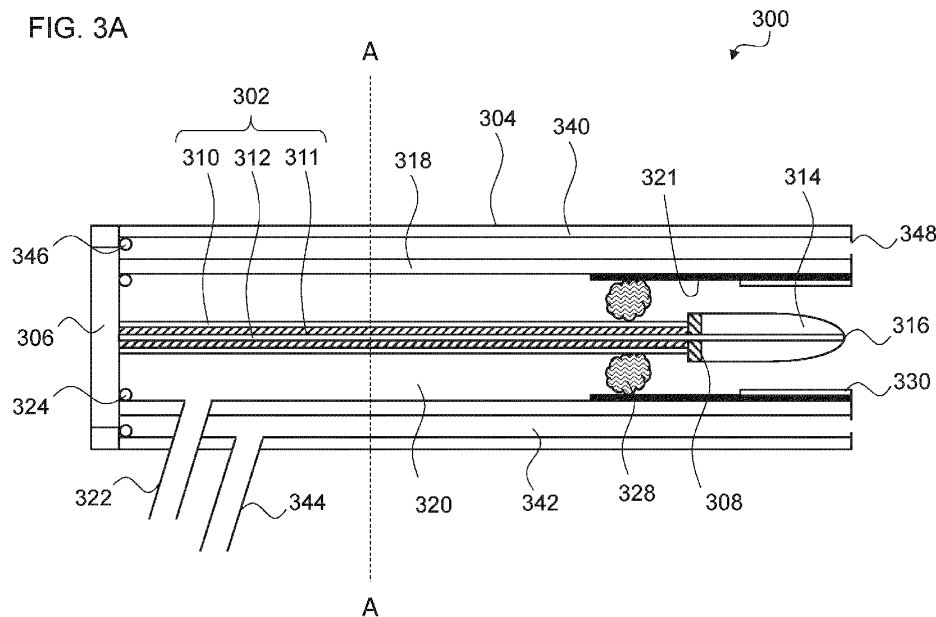
(71) Applicant: CREO MEDICAL LIMITED [GB/GB]; Creo House, Unit 2, Beaufort Park, Beaufort Park Way, Chepstow Monmouthshire NP16 5UH (GB).

(72) **Inventor:** HANCOCK, Christopher Paul; c/o Creo Medical Limited, Creo House, Unit 2, Beaufort Park, Beaufort Park Way, Chepstow Monmouthshire NP16 5UH (GB).

(74) **Agent: MEWBURN ELLIS LLP**; Aurora Building, Counterslip, Bristol BS1 6BX (GB).

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(54) Title: ELECTROSURGICAL INSTRUMENT AND APPARATUS



(57) Abstract: Various embodiments provide an electrosurgical instrument, comprising: an elongate probe comprising a coaxial cable for conveying radiofrequency (RF) and/or microwave frequency electromagnetic (EM) energy, and a probe tip connected at the distal end of the coaxial cable for receiving the RF and/or microwave energy; a gas passage for conveying gas through the elongate probe to the probe tip; and a debidding apparatus for debidding biological tissue. The coaxial cable comprises an inner conductor, an outer conductor and a dielectric material separating the inner conductor from the outer conductor. The probe tip comprises a first electrode connected to the inner conductor of the coaxial cable and a second electrode connected to the outer conductor of the coaxial cable. The first electrode and the second electrode are arranged to produce an electric field from the received RF and/or microwave frequency EM energy across a flow path of gas received from the gas passage to produce a thermal or non-thermal plasma in an area outward from the probe tip.

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