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(71) Applicant (for all designated States except US): **LAM RESEARCH CORPORATION** [US/US]; 4650 Cushing Parkway, Fremont, California CA-94538 (US).

(71) Applicant (for BZ only): **LAM RESEARCH AG** [AT/AT]; SEZ-Strasse 1, A-9500 Villach (AT).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **BENJAMIN, Neil, Martin, Paul** [GB/US]; c/o Lam Research Legal Department, 4650 Cushing Parkway, Fremont, CA 94538 (US). **FISCHER, Andreas** [US/US]; c/o Lam Research Corporation Legal Department, 4650 Cushing Parkway, Fremont, CA 94536 (US).

(74) Agent: **KONTRUS, Gerhard**; SEZ-Strasse 1, A-9500 Villach (AT).

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(54) Title: PLASMA IGNITION AND SUSTAINING METHODS AND APPARATUSES

(57) Abstract: An apparatus for generating plasma including a plasma generating vessel and a coil having a coil length and a first set of partially enclosing, longitudinally oriented conductive (PELOC) fingers and a second set of PELOC fingers. The PELOC finger sets are oriented along a longitudinal axis of the vessel with each partially enclosing a periphery of the vessel. The two sets of PELOC fingers are oriented fingertips facing fingertips and separated by an inter-set distance that is less than the coil length.



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