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- (71) Applicant: **APPLIED MATERIALS, INC.** [US/US]; P.O. Box 450A, Santa Clara, CA 95052 (US). (88) Date of publication of the international search report: 31 January 2002
- (72) Inventors: **HOFFMAN, Daniel, J.**; 12343 Arroyo de Arguello, Saratoga, CA 95070 (US). **YIN, Gerald, Zheyao**; 5511 Country Club Parkway, San Jose, CA 95138 (US). For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.



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(54) Title: PLASMA REACTOR WITH OVERHEAD RF ELECTRODE TUNED TO THE PLASMA

(57) Abstract: In accordance with one aspect of the invention, a plasma reactor has a capacitive electrode driven by an RF power source, and the electrode capacitance is matched at the desired plasma density and RF source frequency to the negative capacitance of the plasma, to provide an electrode plasma resonance supportive of a broad process window within which the plasma may be sustained.