

Title (en)
IMPROVED MEGASONIC CLEANING EFFICIENCY USING AUTO- TUNING OF AN RF GENERATOR AT CONSTANT MAXIMUM EFFICIENCY

Title (de)
VERBESSERTE MEGASCHALL-REINIGUNGSLEISTUNG MITTELS AUTOMATISCHER ABSTIMMUNG EINES HF-GENERATORS BEI KONSTANTER HÖCHSTLEISTUNG

Title (fr)
SYSTEME ET PROCEDE AMELIORES DE NETTOYAGE MEGASONIQUE UTILISANT UNE TECHNIQUE D'ACCORD AUTOMATIQUE PERMETTANT DE FAIRE FONCTIONNER UN GENERATEUR RF A UN RENDEMENT MAXIMAL CONSTANT

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EP 1590828 A2 20051102 (EN)

Application
EP 03800161 A 20031223

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• US 36032203 A 20030206
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• US 36031603 A 20030206
• US 35976503 A 20030206

Abstract (en)
[origin: WO2004071938A2] system and method of cleaning a substrate includes a megasonic chamber that includes a transducer and a substrate. The transducer is being oriented toward the substrate. A variable distance d separates the transducer and the substrate. The system also includes a dynamically adjustable RF generator that has an output coupled to the transducer. The dynamically adjustable RF generator can be controlled by a phase comparison of an oscillator output voltage and a phase of an RF generator output voltage. The dynamically adjustable RF generator can also be controlled by monitoring a peak voltage of an output signal and controlling the RF generator to maintain the peak voltage within a predetermined voltage range. The dynamically adjustable RF generator can also be controlled by dynamically controlling a variable DC power supply voltage.

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H01L 21/302

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