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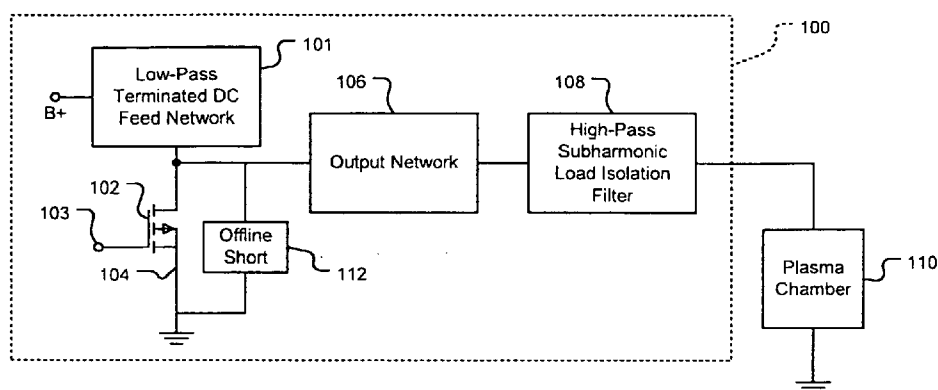
- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
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(54) Title: RF POWER AMPLIFIER STABILITY NETWORK

FIG. 5



(57) Abstract: A radio frequency (RF) generator for applying RF power to a plasma chamber includes a DC power supply (B+). A radio frequency switch generates the RF power at a center frequency f_0 . A low-pass dissipative terminated network connects between the DC power supply (B+) and the switch and includes operates at a first cutoff frequency. The switch outputs a signal to an output network which improves the fidelity of the system. The output network generates an output signal fed to a high-pass subharmonic load isolation filter that passes RF power above a predetermined frequency. A low-pass harmonic load isolation filter may be inserted between the output network and the high-pass subharmonic load isolation filter, and a high-pass terminated network may connect to the output of the output network. The high-pass terminated network dissipates RF power above a predetermined frequency. An offline short or shunt network may connect between the output of the switch and the input of the output network for shorting the output of the switch at predetermined frequencies.