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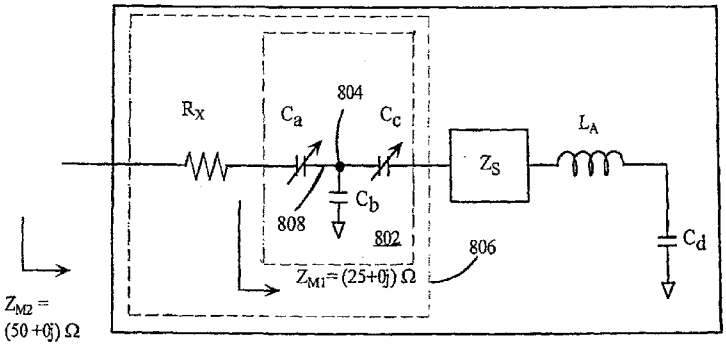
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(54) **Title:** APPARATUS AND METHODS FOR IMPROVING THE STABILITY OF RF POWER DELIVERY TO A PLASMA LOAD



(57) **Abstract:** Methods for improving the stability of RF power delivery to a plasma load are disclosed. The method includes adding an RF resistor and/or a power attenuator at one of many specific locations in the RF power system to lower the impedance derivatives while keeping the matching circuit substantially in tune with the RF transmission line.

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