

Title (en)

METHOD FOR IMPEDANCE MATCHING THE OUTPUT IMPEDANCE OF A HIGH-FREQUENCY POWER SUPPLY ARRANGEMENT TO THE IMPEDANCE OF A PLASMA LOAD, AND HIGH FREQUENCY POWER SUPPLY ARRANGEMENT

Title (de)

VERFAHREN ZUR IMPEDANZANPASSUNG DER AUSGANGSIMPEDANZ EINER
HOCHFREQUENZLEISTUNGSVERSORGUNGSANORDNUNG AN DIE IMPEDANZ EINER PLASMALAST UND
HOCHFREQUENZLEISTUNGSVERSORGUNGSANORDNUNG

Title (fr)

PROCÉDÉ PERMETTANT D'ADAPTER L'IMPÉDANCE DE SORTIE D'UN ENSEMBLE D'ALIMENTATION EN PUISSANCE À HAUTE
FRÉQUENCE À L'IMPÉDANCE D'UNE CHARGE PLASMA ET ENSEMBLE D'ALIMENTATION EN PUISSANCE À HAUTE FRÉQUENCE

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Application

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Abstract (en)

[origin: WO2012159620A2] The invention relates to a method for impedance matching the output impedance of a high-frequency power supply arrangement (1) to the impedance of a plasma load (2), comprising the following method steps: a. generating a high-frequency signal by means of a high-frequency signal generator (6); b. in a first impedance matching mode, impedance matching the output impedance of the high-frequency power supply arrangement (1) exclusively by changing the frequency of the generated high-frequency signal; c. monitoring the frequency of the generated high-frequency signal to ascertain whether said frequency is within a predetermined frequency range; d. if the frequency is outside the predetermined frequency range, in a second impedance matching mode, impedance matching the output impedance of the high-frequency power supply arrangement (1) by mechanically and/or electrically changing a circuit (11) connected downstream of the high-frequency signal generator (6).

IPC 8 full level

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