DESCRIPTION

Title of the Invention

PULSE MODULATED RF POWER CONTROL METHOD AND PULSE MODULATED RF POWER SUPPLY DEVICE

Field of the Invention

[0001]

As a method for controlling RF power to be supplied to a load, there are known a method for performing a control to establish constant forward power outputted from the RF power supply device (PF control) and a method for performing a control to establish constant load power which is obtained by subtracting reflected power from the forward power (PL control). (Patent documents 1, 2)

[0002]

As a method for controlling amplitude of outputted power, there are known a continuous power control method for controlling power amplitude of continuous power, and a pulse power control method for changing a duty ratio of a pulse width or a pulse. (Patent document 3)

[0003]

In controlling the pulse power or the continuous power, it is known that, in the case where the reflected power is increased, the output power is lowered so as to protect the RF power supply device. In a peak load power control for controlling a peak value of load power, the peak forward power is controlled to be variable, when the peak reflected power fluctuates.

DESCRIPTION

Title of the Invention

PULSE-MODULATED HIGH-FREQUENCY POWER CONTROL METHOD AND PULSE-MODULATED HIGH-FREQUENCY POWER SOURCE DEVICE

Field of the Invention

[0001]

As a method for controlling RF power to be supplied to a load, there are known a method for performing a control to establish constant forward power outputted from the RF power supply device (PF control) and a method for performing a control to establish constant load power which is obtained by subtracting reflected power from the forward power (PL control). (Patent documents 1, 2)

[0002]

As a method for controlling amplitude of outputted power, there are known a continuous power control method for controlling power amplitude of continuous power, and a pulse power control method for changing a duty ratio of a pulse width or a pulse. (Patent document 3)

[0003]

In controlling the pulse power or the continuous power, it is known that, in the case where the reflected power is increased, the output power is lowered so as to protect the RF power supply device. In a peak load power control for controlling a peak value of load power, the peak forward power is controlled to be variable, when the peak reflected power fluctuates.