

Title (en)

RADIO FREQUENCY POWER AMPLIFIER AND METHOD USING AN AMPLITUDE CONTROL SYSTEM

Title (de)

HOCHFREQUENZLEISTUNGSVERSTÄRKER UND VERFAHREN ZUR VERWENDUNG EINES AMPLITUDENSTEUERUNGSSYSTEMS

Title (fr)

AMPLIFICATEUR DE PUISSANCE RF ET PROCEDE D'UTILISATION D'UN SYSTEME DE CONTROLE D'AMPLITUDE

Publication

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Application

EP 06758787 A 20060428

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Abstract (en)

[origin: WO2006116743A2] A radio frequency power amplifier and corresponding method is arranged and configured to drive a resonant load. The radio frequency power amplifier includes a radio frequency switching stage with an output that is coupled to a resonant circuit. The switching stage is configured to provide an output signal with amplitude modulation corresponding to amplitude modulation of an input signal when powered from a fixed voltage power supply. The amplifier further includes a feedback control system coupled to the input signal and the output signal, where the feedback control system includes a sequencer configured to provide a sequencer output that is used to drive the radio frequency switching stage. The amplifier also includes an amplitude control system coupled to the output of the radio frequency switching stage and configured to limit an amplitude of the output signal and in some embodiments a power recovery system.

IPC 8 full level

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