

Title (en)

POWER AMPLIFIER FOR AMPLIFYING HIGH-FREQUENCY (H.F.) SIGNALS

Title (de)

LEISTUNGSVERSTÄRKER ZUM VERSTÄRKEN VON HOCHFREQUENZ (HF)-SIGNALEN

Title (fr)

AMPLIFICATEUR DE PUISSANCE POUR L'AMPLIFICATION DE SIGNAUX A HAUTE FREQUENCE (HF)

Publication

**EP 1815593 A1 20070808 (DE)**

Application

**EP 05808222 A 20051110**

Priority

- EP 2005012021 W 20051110
- DE 102004056435 A 20041123

Abstract (en)

[origin: WO2006056321A1] An H.F. power amplifier is disclosed having a plurality of branches (10, 11, 12) switched in parallel. Each branch comprises a plurality of amplifier elements (T1, , T4) switched in series. Resistors (R2, , R5) enable the voltage (U\_DS) applied to the amplifier elements (T1, , T4) to be set at a fraction of a supply voltage (Ud) applied to the branches (10, 11, 12). Capacitors (C2, , C4) are used to adjust the source impedance of the amplifier elements (T2, , T4). In order to prevent the gate-drain voltage (U\_GD) from exceeding the breakdown voltage of an amplifier element (T1, , T4) and damaging the amplifier element (T1, , T4), a limiting path (7) is connected according to the invention between the gate terminal (G) and the drain terminal (D) of the amplifier element (T1, , T4), the limiting path (7) being switchable between a conducting state and a blocking state depending on the gate-drain voltage (U\_GD).

IPC 8 full level

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Citation (search report)

See references of WO 2006056321A1

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