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(54) **SWITCHING POWER SUPPLY,
AMPLIFICATION DEVICE, AND
COMMUNICATION DEVICE**

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(57) **ABSTRACT**

A switching power supply includes a switching power supply circuit that has an upper arm and a lower arm that are coupled in series. The switching power supply further includes a drive circuit that alternately turns on the upper arm and the lower arm across a dead time in which the upper arm and the lower arm are turned off such that an output voltage of the switching power supply circuit follows a voltage of an input signal that is an envelope signal or a subcarrier signal; and an adjustment circuit that adjusts the dead time according to the voltage of the input signal.

