Title (en)

MICROPHONE

Publication

EP 0096778 B1 19880817 (DE)

Application

EP 83105247 A 19830526

Priority

DE 3222295 A 19820614

Abstract (en)

[origin: US4541112A] An electroacoustic transducer system comprises a microphone working into a low-frequency amplifier for the energization of an a-c load such as, for example, a loudspeaker or a volume indicator at a control panel. Biasing voltage for the microphone and operating current for the amplifier are derived from a d-c source, via a phantom circuit including the output leads of the amplifier and through a coupler in cascade with a chopper; the latter includes a transistor conducting intermittently under the control of an adjustable pulse generator whose pulse width is varied by negative feedback from the integrated chopper output. An output transformer with a primary in series with the transistor has several secondaries each connected across a storage capacitor through a diode for the generation of a relatively high biasing voltage for the microphone, a relatively low driving voltage for the amplifier and, possibly, a further voltage used to vary the directional pattern of the microphone. To facilitate the establishment of different voltage levels, the development of the lower voltage is delayed-by the combination of a choke with a Zener diode, or by a thyristor-until the higher voltage has been reached by a transient occurring at the beginning of each cutoff phase.

IPC 1-7

H04R 19/04; H02M 3/335

IPC 8 full level

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CPC (source: EP US)

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Cited by

DE102010054895B4; US7620189B2; US7356151B2; US7835531B2; EP0562738A3; CN112217482A; DE102010054895A1; CN114040301A; EP1585359A1; EP1585365A1; DE102008022588A1; US8897460B2

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