

Title (en)
MICROPHONE

Publication
EP 0096778 A3 19851204 (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.

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H04R 19/04; **H02M 3/335**

IPC 8 full level
H02M 3/335 (2006.01); **H04R 3/00** (2006.01); **H04R 19/04** (2006.01)

CPC (source: EP US)
H04R 3/00 (2013.01 - EP US); **H04R 19/04** (2013.01 - EP US)

Citation (search report)
• [X] DE 2126385 A1 19711216 - AKG AKUSTEISCHE U KINO GERAETE
• [A] US 4122514 A 19781024 - AMIN DILIP A
• [X] RADIO MENTOR, Band 33, Nr. 7, Juli 1967, Seiten 528-532, Berlin, DE; G. BORE: "Transistorbestückte Kondensator-Mikrofone in Niederfrequenz-Schaltung" Seite 531, linke Spalte, Zeile 27 - Seite 532, linke Spalte, Zeile 48; Figuren 8-12
• [X] FUNKSCHAU, Band 41, Nr. 10, 2. Mai 1969, Seite 900, München, DE; F. KÜHNE: "Elektret-Kondensatormikrofone"

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