

Vacuum Tube Karaoke Apparatus for Processing Singing Voice Quality

BACKGROUND OF THE INVENTION

1) FIELD OF THE INVENTION

5 The present invention of a vacuum tube karaoke apparatus for processing singing voice quality mainly aims to provide a vacuum tube karaoke apparatus capable of, according to the actual sound quality and feature of the performer, making the timbre of the received sound become more clear and full by the process of the vacuum tube, thereby, and improve the situation of losing
10 the actuality of or having rough sound quality.

2) DESCRIPTION OF THE PRIOR ART

Accordingly, the fast enhancement and popularization of the audio-visual technology enables most of the public to install the equipment of the audio-visual accompaniment at their own homes and use the cassettes and
15 audio-visual disc accompaniments to perform the singing, not only for training their own singing skills, but also for having fun with the family and the friends. That is truly a healthy leisure activity for both the old and the young.

However, most of the ways of sound processing of the conventional karaoke accompaniment directly mix the sound signal received from the
20 microphone with the accompanying music for output and broadcasting. During

this procedure, the performer's voice can only be processed by using sound volume to control the circuit for conducting simple volume regulation and circuit process, even the effect process of the ascent and descent of the key focuses only on the accompanying music, however, the sound quality of the performer can not be modified to a proper degree. Therefore, via the broadcasting of the karaoke accompaniment, the performer's voice often comes out along with the situation of losing the actuality of or having rough sound quality, which not only fails to express the original soft and full timbre of the sound, but also further destroys the original singing standard and is incapable of permitting the user to enjoy the activity completely.

SUMMARY OF THE INVENTION

Therefore, the primary objective of the present invention is to provide a vacuum tube karaoke apparatus capable of processing the performer's singing voice to become more delicate and magnetic.

In order to achieve the above objective, the present invention of a vacuum tube karaoke apparatus for processing singing voice quality has a vacuum tube mounted inside the bottom base to amplify the performer's voice received through the microphone and to regulate the control of the sound volume by the OP small signal amplifier, then to soften the sound quality through the signal of the vacuum tube buffer, and after conducting the sound

effect process in the sound frequency equalization circuit and echo effect process circuit, the performer's voice then enters the mixing amplifier and outputs with the original singing as well as the accompanying music.

To enable a further understanding of the objective and the innovation of the present invention, the brief description of the drawings below is followed by the detailed description of the preferred embodiment.

BRIEF DESCRIPTION OF THE DRAWINGS

Figure 1 is a pictorial and external drawing of the present invention.

Figure 2 is a spread drawing of the present invention.

Figure 3 is an isometric drawing of the disassembled present invention.

Figure 4 is an isometric drawing of the electric circuit of the present invention.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

Referring from FIG. 1 to FIG. 4, the present invention of a vacuum tube karaoke apparatus for processing singing sound quality mainly comprises of a bottom base (1), a top cover (2), several IC circuit boards (3) and a vacuum tube (4), wherein the said bottom base (1) is an inwardly concaved case body, with several regulating buttons (12) mounted outside the bottom base (1), while the mentioned IC circuit boards (3) are installed inside the bottom base (1), connected to the vacuum tube (4) mounted inside the bottom base (1) via the

electric wires and covered by the top cover (2) on the top of the bottom base (1);
the mentioned IC circuit boards (3) as simplified in FIG. 4, indicates that the
microphone signal passes through the OP small signal amplifier, the regulation
of the volume control, the vacuum tube buffer (4), the sound frequency
5 equalization circuit, the echo sound effect process and finally enters the mixing
amplifier and outputs with the original singing as well as the accompanying
music.

In summation of the foregoing section, since the vacuum tube (4) is
mounted inside the bottom base (1) of the present invention of a vacuum tube
10 karaoke apparatus for processing singing voice quality, during the singing, the
performer's singing voice is received through the microphone and then
broadcasted again after not only being processed by the IC circuit and the wire
circuit, but also by the vacuum tube; thereby, the performer can easily express
his or her original singing skill and the timbre of the sound will be make softer,
15 more beautiful, delicate and magnetic, and the situation of losing the actuality
of or having rough sound quality will be improved; more especially, the timbre
of the sound received after being processed by the vacuum tube will sound
more clearly and fully. The present invention provides a preferred embodiment
of karaoke apparatus and complies with all new patent application requirements
20 and is hereby submitted to the patent bureau for review and the granting of the

commensurate patent rights.



CLAIMS

1. A vacuum tube karaoke apparatus for processing singing voice quality,
comprising of a bottom base, a top cover, several IC circuit boards and a
vacuum tube, wherein the said bottom base is an inwardly concaved
5 case body, with several regulating buttons mounted outside the bottom
base, while the mentioned IC circuit boards are installed inside the
bottom base via the power source and covered by the top cover on the
top of the bottom base, is characterized that there is a vacuum tube
mounted inside the bottom base and connected to the IC circuit boards
10 via the electric wires.

2. A vacuum tube karaoke apparatus for processing singing voice quality
according to claim 1, wherein, the IC circuit is designed to make the
microphone signal pass through the OP small signal amplifier, the
regulation of the volume control, the vacuum tube buffer, the sound
15 frequency equalization circuit, the echo sound effect process and finally
enter the mixing amplifier and output with the original singing as well
as the accompanying music.