

CLAIMS

1. An audio frequency and signal-controlled light-emitting device, consisting of audio frequency equaliser circuitry, speaker and light-emitting device.

Audio signal is sent to the audio frequency equaliser, which will be filtered and amplified and output to the speaker and the light-emitting device.

The light-emitting device is a RGB light-synthesizing device.

There are three frequency-band amplifiers for frequency filtering, each frequency-band amplifier will generate a colour-code signal from one of the primary colour of RGB.

The RGB light-synthesizing device will generate the final colour from the three colour-code signals from the three frequency-band amplifiers.

2. In accordance to Claim 1, the described is an audio frequency and signal-controlled light-emitting device, whose feature of the frequency selecting filter includes three frequency-band amplifier .
3. In accordance to Claim 2, the frequency range of the three frequency-band amplifiers is from 20Hz to 20kHz.
4. In accordance to Claim 1, the described is an audio frequency and signal-controlled light-emitting device, whose characteristics of the frequency-band amplifiers:
 - (i) frequency range of the First frequency-band amplifier is from 20Hz to 20kHz,
 - (ii) frequency range of the Second frequency-band amplifier is from 300Hz to 20kHz,
 - (iii) frequency range of the Third frequency-band amplifier is from 700Hz to 20kHz.
5. In accordance to Claim 1, the described is an audio frequency and signal-controlled light-emitting device, whose characteristic of the light-emitting device is LED (light emitting diode).
6. In accordance to Claim 1, the described is an audio frequency and signal-controlled light-emitting device, whose feature includes a set of audio frequency equaliser and audio amplifier between the speakers and the audio source.
7. An audio frequency and signal-controlled light-emitting device, whose features includes at least 2 of the claims, Claim 1, 2, 3, 4, 5 or 6 of the described audio frequency and signal-controlled light-emitting device.