

Exhibit 8

8,582,789

1. A hearing enhancement system for a user, comprising:

The LG Tone Free T80 together with an audio system, such as an LG mobile phone or an LG OLED TV, is a hearing enhancement system.

https://www.lg.com/us/wireless-headphones/lg-t80S-white-tone-free-earbuds#pdp_specs:

**World's First Wireless
Dolby Atmos®* Earbud
Series with Head Tracking™**

Designed to enhance your listening experience



an audio system configured to receive input signals for broadcasting, and configured to up-convert the received input signals into up-converted signals to be wirelessly transmitted;	An audio system, such as an LG mobile phone, receives input signals for broadcasting and, on information and belief, up-converts the received input signal into an up-converted signal to be wirelessly transmitted. https://archive.org/details/electroniccommun0000toma/mode/1up (Tomasi, W. (2001). Electronic communications systems: fundamentals through advanced (4th edition). Prentice Hall. P. 4):
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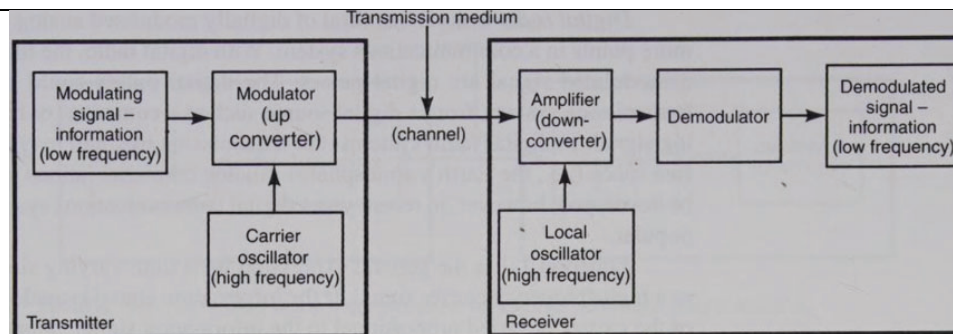


FIGURE 1-2 Communications system block diagram

interfere with each other. For example, all commercial FM stations broadcast voice and music signals that occupy the audio-frequency band from approximately 300 Hz to 15 kHz. To avoid interfering with each other, each station converts its information to a different frequency band or channel. The term *channel* is often used to refer to a specific band of frequencies allocated a particular service. A standard voice-band channel occupies approximately a 3-kHz bandwidth and is used for transmission of voice-quality signals; commercial AM broadcast channels occupy approximately a 10-kHz frequency band, and 30 MHz or more of bandwidth is required for microwave and satellite radio channels.

Figure 1-2 is the simplified block diagram for an electronic communications system showing the relationship among the modulating signal, the high-frequency carrier, and the modulated wave. The information signal (sometimes called the intelligence signal) combines with the carrier in the modulator to produce the modulated wave. The information can be in analog or digital form and the modulator can perform either analog or digital modulation. Information signals are *up-converted* from low frequencies to high frequencies in the transmitter and *down-converted* from high frequencies to low frequencies in the receiver. The process of converting a frequency or band of frequencies to another location in the total frequency spectrum is called *frequency translation*. Frequency translation is an intricate part of electronic communications because information signals may be up- and down-converted many times as they are transported through the system called a channel. The modulated signal is transported to the receiver over a transmission system. In the receiver the modulated signal is amplified, down-converted in frequency, then demodulated to reproduce the original source information.

; https://www.lg.com/us/wireless-headphones/lg-t80S-white-tone-free-earbuds#pdp_specs:

Experience Dolby Atmos[®] and Dolby Head Tracking[™] across all entertainment

Immerse yourself in a whole new richness of sound with the world's first wireless Dolby Atmos[®]1 earbud series designed to enhance your listening experience. Plan on staying in? Pair your T80S earbuds with your LG OLED TV for cinema-quality sound from your couch. Working from home? Enjoy Dolby Atmos enhanced audio on your LG gram laptop. And with Dolby Head Tracking[™]2, you can enjoy consistent audio from every angle—so you always feel like you're listening from center stage.

Ready to Chat

Dive into conversations clearly with a 4-mic system that recognizes what type of conversation you're having and adjusts the microphone to the just-right noise cancellation. The outer mic monitors and reduces ambient noise from your surroundings, the voice mic records your voice and the inner mic reduces noise in your own ear — plus the unique voice pick up unit (VPU) sensor detects vibrations to sense if you are on a noisy phone call or a quiet one-on-one conversation for the just-right sound every time.

a wireless receiver configured to wirelessly receive the up-converted signals;

The LG Tone Free T80 includes a wireless receiver to wirelessly receive the up-converted signals.

https://www.lg.com/us/wireless-headphones/lg-t80S-white-tone-free-earbuds#pdp_specs:

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Series with Head Tracking™**

Designed to enhance your listening experience



*Dolby, Dolby Atmos and the double-D symbol are registered trademarks of Dolby Laboratories.

**Compatibility and availability may vary by device, application and content.
Dolby Head Tracking and audio virtualizer must be turned on in the LG TONE Free app.

Ready to Chat

Dive into conversations clearly with a 4-mic system that recognizes what type of conversation you're having and adjusts the microphone to the just-right noise cancellation. The outer mic monitors and reduces ambient noise from your surroundings, the voice mic records your voice and the inner mic reduces noise in your own ear — plus the unique voice pick up unit (VPU) sensor detects vibrations to sense if you are on a noisy phone call or a quiet one-on-one conversation for the just-right sound every time.

A Smart Earbud

From the noise on a busy street to the quiet of your office, our adaptive ANC technology knows you're wearing your earbuds and detects the noise around you to adjust the sound just right every time. So whenever there are changes to your environment, the earbud technology adapts to ensure clear, crisp calls to help you hear everything better.

	Tune In and Out When You Want  Tune in or out when in a public setting by toggling between Whisper, Conversation and Listening Modes⁴. Pop out the right earbud and whisper close to the mic to dive into private conversations with Whisper Mode, or choose Listening Mode while on a busy street to let in some of the sounds around you. Sitting with a friend? Tap and switch to Conversation Mode to amplify their voice, so you can easily chat with your earbuds in.
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a down-converter configured to down-convert the received up-converted signals into down-converted signals;	On information and belief, the LG Tone Free T80 includes a down-converter that converts the received up-converted signals into down converted signals. https://www.lg.com/us/wireless-headphones/lg-t80S-white-tone-free-earbuds#pdp_specs: Experience Dolby Atmos[®] and Dolby Head Tracking[™] across all entertainment  Immerse yourself in a whole new richness of sound with the world's first wireless Dolby Atmos^{®1} earbud series designed to enhance your listening experience. Plan on staying in? Pair your T80S earbuds with your LG OLED TV for cinema-quality sound from your couch. Working from home? Enjoy Dolby Atmos enhanced audio on your LG gram laptop. And with Dolby Head Tracking^{™2}, you can enjoy consistent audio from every angle—so you always feel like you're listening from center stage. Ready to Chat  Dive into conversations clearly with a 4-mic system that recognizes what type of conversation you're having and adjusts the microphone to the just-right noise cancellation. The outer mic monitors and reduces ambient noise from your surroundings, the voice mic records your voice and the inner mic reduces noise in your own ear — plus the unique voice pick up unit (VPU) sensor detects vibrations to sense if you are on a noisy phone call or a quiet one-on-one conversation for the just-right sound every time.
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a modifier configured to modify the down-converted signals into modified signals based on at least one hearing characteristic of the user to enhance the hearing of the user; and

The LG Tone Free T80 includes a modifier that modifies the down-converted signals into modified signals based on at least one hearing characteristic of the user to enhance the hearing of the user.

<https://www.lg.com/us/headphones/tonefreeapp>:

Make Your Own EQ Modes

Make the bass fuller and the vocals sharper with custom settings. The LG TONE Free App lets you customize the equalizer so playback is just how you like it.

<https://www.lg.com/us/wireless-headphones/lg-t80S-white-tone-free-earbuds>:

A Smart Earbud



From the noise on a busy street to the quiet of your office, our adaptive ANC technology knows you're wearing your earbuds and detects the noise around you to adjust the sound just right every time. So whenever there are changes to your environment, the earbud technology adapts to ensure clear, crisp calls to help you hear everything better.



Ready to Chat



Dive into conversations clearly with a 4-mic system that recognizes what type of conversation you're having and adjusts the microphone to the just-right noise cancellation. The outer mic monitors and reduces ambient noise from your surroundings, the voice mic records your voice and the inner mic reduces noise in your own ear — plus the unique voice pick up unit (VPU) sensor detects vibrations to sense if you are on a noisy phone call or a quiet one-on-one conversation for the just-right sound every time.

a speaker configured to generate audio output signals from the modified signals for the user.

The LG Tone Free T80 includes a speaker to generate audio output signals from the modified signals for the user.

https://www.lg.com/us/wireless-headphones/lg-t80S-white-tone-free-earbuds#pdp_specs:

Dynamic and Downright Impressive

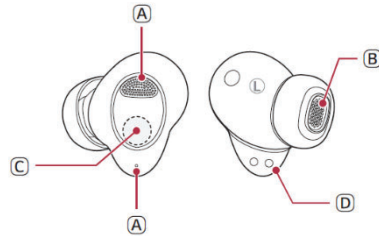
The reinforced Graphene Speaker driver is made of a strong, lightweight material that delivers better overall audio clarity and reduced vibration so you can hear every sound come alive to feel like you're front-row and center-stage.

Designed for comfort. Perfected for sound.

Keep the music playing and the conversation flowing with T80 earbuds. Each earbud is powered by ultra-light graphene drivers for rich, lifelike sound. Paired with a lightweight oval design and medical-grade eargels, you can enjoy all-day comfort without sacrificing sound quality. Wear T80 earbuds at the gym, on your commute, or anywhere your mood—or playlist—takes you.

; <https://www.lg.com/us/support/manuals-documents?customerModelCode=TONE-T80S&csSalesCode=TONE-T80S.AUSALBK&category=CT41000323&subcategory=CT41000343>:

Earbuds



- (A) Microphone
- (B) Speaker mesh (microphone)
- (C) Touch pad
- (D) Earbuds charging terminals

✓ Note

- Be careful that foreign substances are not over the Earbuds charging terminals.

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