

## Petitioner's Oral Hearing Demonstratives

# Apple Inc. (Petitioner) v. Koss Corporation (Patent Owner)

Case No. IPR2021-00592  
U.S. Patent No. 10,469,934

Before Hon. Patrick R. Scanlon, David C. McKone, and Gregg I. Anderson

## Instituted Grounds

Obviousness Ground	Claim(s) Challenged
Haupt, Seshadri, Rao	<b>1, 2, 9, 32, 47, 52, 53, 54, 56–57</b>
Haupt, Seshadri, Rao, Paulson	<b>3, 5, 7</b>
Haupt, Seshadri, Rao, Rosener	<b>10, 14, 15, 23, 24, 33–36, 42, 43, 46, 48–51, 55</b>
Haupt, Seshadri, Rao, Rosener, Paulson	<b>11, 16, 19, 21, 25, 28, 30, 37, 39, 45</b>

\* Independent claims noted in **red**

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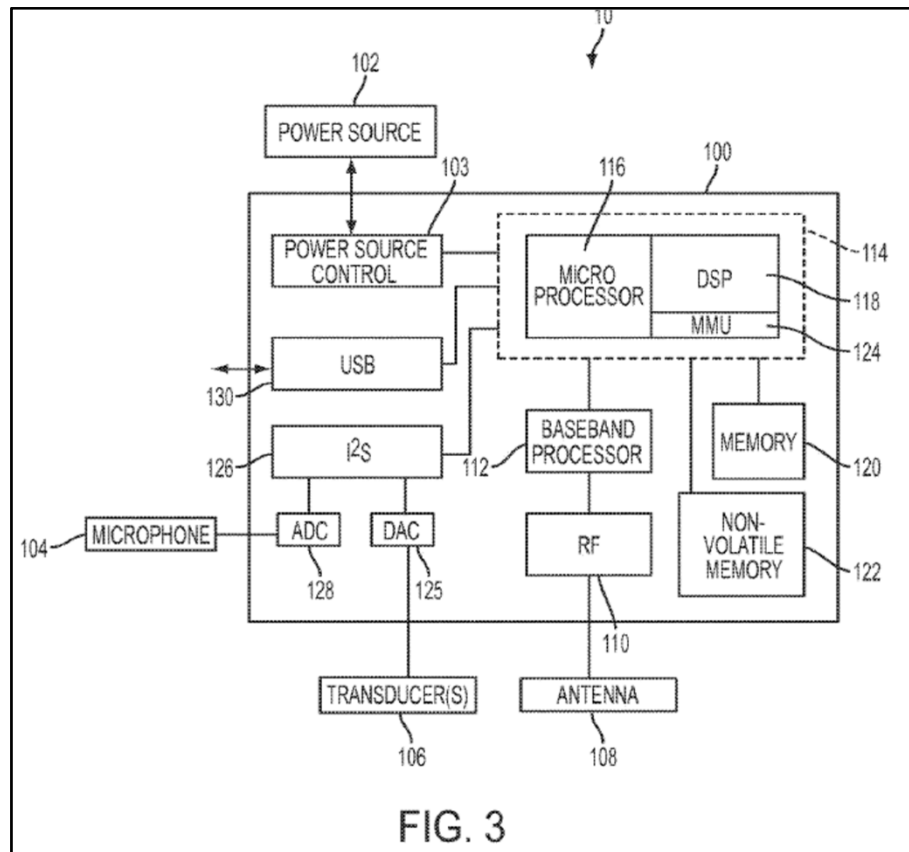
## The '934 Patent

“The '934 patent relates to wireless earphones that receive audio data over a network.”

Petition at 3 (citing APPLE-1001, 1:66-2:17)

“In one general aspect, the present invention is directed to a wireless earphone that comprises a transceiver circuit for receiving **streaming audio from a data source**, such as a digital audio player or a computer, over an ad hoc wireless network.”

APPLE-1001, 1:66-2:3



APPLE-1001 at Figure 3

## The '934 Patent – Claim 1

1. **A headphone assembly** comprising:
  - first and second earphones, wherein each of the first and second earphones comprises an acoustic transducer; and
  - an antenna for receiving wireless signals from a mobile, digital audio player via one or more ad hoc wireless communication links;
  - a wireless communication circuit connected to the antenna, wherein the wireless communication circuit is for receiving and transmitting wireless signals to and from the headphone assembly;
  - a processor;
  - a memory for storing firmware that is executed by the processor;
  - a rechargeable battery for powering the headphone assembly; and
  - a microphone for picking up utterances by a user of the headphone assembly;and
  - wherein the headphone assembly** is configured to play, by the first and second earphones, digital audio content transmitted by the mobile, digital audio player via the one or more ad hoc wireless communication links;
  - wherein the processor** [of the **headphone assembly**] is configured to, upon activation of a user-control of the headphone assembly, initiate transmission of a request to a remote, network-connected server that is in wireless communication with the mobile, digital audio player; and
  - wherein the headphone assembly** is for receiving firmware upgrades transmitted from the remote, network-connected server.

APPLE-1001 ('934 patent) at 18:2-32.

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