

Apple Inc., Petitioner v.

Koss Corporation, Patent Owner

IPR2021-00381 Patent 10,491,982

April 5, 2022

# Background of the Technology and the Challenged Claims

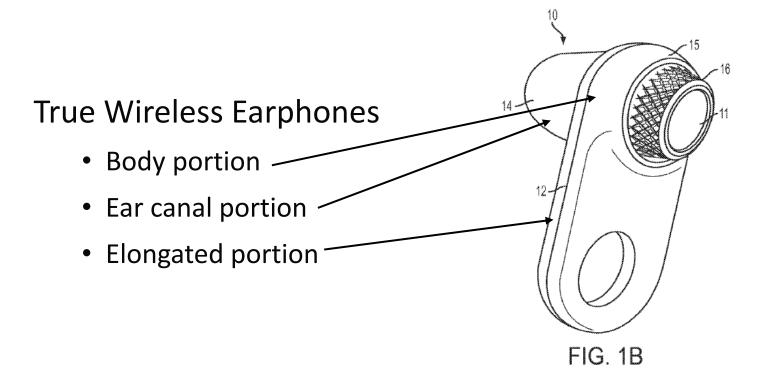


United States Patent Koss et al.		(10) Patent No.: US 10,491,982 B1 (45) Date of Patent: *Nov. 26, 2019
(54) <b>SYSTE</b>	M WITH WIRELESS EARPHONES	(56) References Cited
	nt: Koss Corporation, Milwaukee, WI (US); Michael J. Koss, Milwaukee, WI (US); Michael J. Pelland, Princeton, WI (US); Michael Sagan, Fairfield, CA (US); Steven R. Reckamp, Crystal Lake, IL (US); Gregory J. Hallingstad, Deforest, WI (US); Jeffery K. Bovee, Sterling, IL (US); Morgan J. Lowery, Deforest, WI (US)	U.S. PATENT DOCUMENTS  5.784,685 A 7/1998 Stanford et al. 6,006,115 A 12/1999 Wingate (Continued)  FOREIGN PATENT DOCUMENTS  JP 2004-320597 11/2004 JP 2008-67258 A 3/2008 (Continued)
(73) Assigne	e: KOSS CORPORATION, Milwaukee, WI (US) Subject to any disclaimer, the term of this	OTHER PUBLICATIONS  Supplementary European Search Report for European Applicatio No. 09731146.8 dated Jun. 10, 2011, 7 pages.  (Continued)
(21) Anal N	patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.  This patent is subject to a terminal disclaimer.	Primary Examiner — Kiet M Doan (74) Attorney, Agent, or Firm — K&L Gates LLP
(21) Appl. N (22) Filed:	io.: 16/528,701 Aug. 1, 2019	(57) ABSTRACT
(63) Continu Apr. 5, (51) Int. Cl. H04R 3 H04R 1	//00 (2006.01) //10 (2006.01) (Continued)	Apparatus comprises adapter and speaker system. Adapter i configured to plug into port of personal digital audio playe Speaker system is in communication with adapter, an comprises multiple acoustic transducers, programmable pro- cessor circuit, and wireless communication circuit. In fin- operational mode, processor circuit receives, vis adapter and processes digital audio content from personal digita audio player into which adapter is plugged, and the multipl acoustic transducers output the received audio content from the personal digital audio player. In second operations mode, wireless communication circuit receives digital audio content from a remote digital audio source over a wireles network, processor circuit processes the digital audio con-
(58) Field o		nework, processor circum processor in engital audio content received from remote digital audio source, and the multiple acoustic transducers output the audio content received from the remote digital audio source.  20 Claims, 16 Drawing Sheets

Ex. 1001

## ÞΩ KOSS®

#### '982 Patent



## >ººº

#### '982 Patent

#### Wireless earphones include:

- Wireless communication circuit
- Processor
- Speaker/transducer
- Microphone
- Antenna
- Rechargeable power source

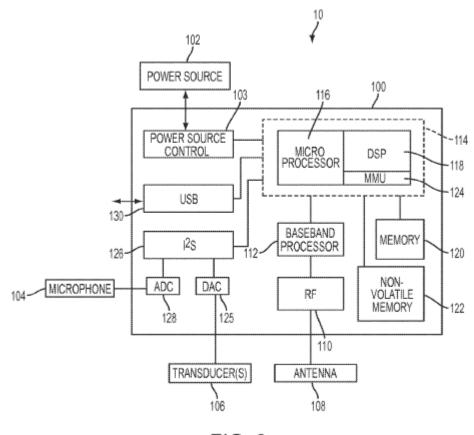


FIG. 3

### DOCKET

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