UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

APPLE INC.,

Petitioner,

v.

GUI GLOBAL PRODUCTS, LTD.,

Patent Owner.

Case IPR2021-00473

Patent 10,589,320

PATENT OWNER'S ORAL HEARING DEMONSTRATIVES



APPLE, INC., Petitioner

V.

GUI GLOBAL PRODUCTS, LTD., Patent Owner

IPR2021-00471, -00472, -00473

Demonstratives of Patent Owner GUI Global Products, Ltd.

Hearing Date: May 19, 2022



Lee's inductive charging, especially the "dual" coil inductive char not a suitable alternative to Gundlach's conductive

Petitioner uses hindsight to combine Lee's Fig. 12 dual purpose transducer coil embeddiment to create a reason for Gundlach's clamshell case (which protects Gundresult is a combination that is highly undesirable and violates Gundlach's design go requiring larger size and weight, and with its increased cost and complexity.

The testimony of Gwee's expert, Dr. Toliyat, whose vast expertise in the area of wire contravenes, debunks and outweighs any alleged motions to combine proffered by

Petitioner's new theories, each made for the first time in its Reply, as well as new E Reply, in an effort to rebut Dr. Toliyat's reasoned analysis. These new theories and prejudicial in a Reply, and they should be disregarded.



Gundlach requires a highly compact for for storing and charging the headset and case/cradle using

[0002] The present invention relates to a device that when in a first configuration, such as when expanded, becomes a wireless mono or stereo headset and when in a second configuration, such as when collapsed, stores and charges in a host device such as a laptop computer or cell phone.

[0006] Most portable and handheld computers have expansion slots built-in such as the ExpressCardTM or PC Card slots. The slots may conform to form and protocol standards that may allow third party vendors to create interchangeable accessory devices. Expansion cards may allow the user to increase a device's memory or add different types of communication interfaces. Due to the rise in popularity of the USB interface and the subsequent migration of the accessory market to that interface, most PC card slots sit empty in laptops. Many slots have power that can be used to charge battery operated devices as well as high speed communications buses to interchange data.

[0007] An aspect of the present disclosure relates to a wireless device. The wireless device may include a housing, a microphone, a transceiver, and a speaker which directs sound through an earpiece movably affixed to said housing, wherein at least a portion of the earpiece maybe configured to fit within a user's ear. In addition, the wireless device may have a physical envelope which may be defined by a length, width and thickness and the earpiece, in an expanded configuration, may be capable of expanding the physical envelope in at least one direction. In another aspect of the present disclosure, the wireless device may also assume a form factor of a card capable of being inserted into a host device.

[0056] In an exemplary embodiment the device may an articulating ear piece that when expanded may fit over the ear. When collapsed the earpiece may be situated a plane with the housing of the headset creating a public thickness of, e.g., about 5 mm or less. The relative shape may allow the headset to be stored and charge portable cradle or with a mini USB charger. The public cradle may be a holder, clip, case or card that may fit is standard expansion slot conforming to any expansions and ExpressCard34, etc. Additionally a unique slot of may be designed into a laptop or cell phone or any communication device that may utilize a speaker and phone to accommodate such as a wireless headset.

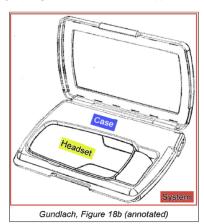
[0057] Expanding on the above, the overall size and of the headset may be designed to accommodate or fit the form factor of a standard expansion slot. For example device itself may be 24 mm×60 mm×5 mm when fold storage purposes. A 34 mm×75 mm×5 mm headset may be provided which may accommodate and fit wit size of a standard Expresscard 34 card. Such device into the 34 mm Expresscard slot for storage and ch inside a portable computer. Once again, it should be a ated that different form factors are also contemplated as include the ExpressCard 54 or PCMCIA form factors as a form factor that may be later specifically develop such a wireless device. Furthermore, the device itself relatively light in weight. An exemplary device may less than 20 grams and in certain embodiments, less t grams.



The Petition advanced a specific configuration for an alleged Gund the geometry of the devices depicted in the asserted "system

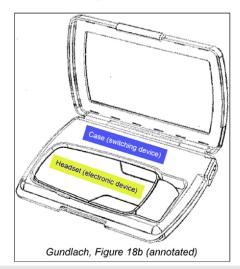
For example, the Petition states and depicts the following:

In the embodiment of Figures 18a-18b (below), Gundlach's system includes a wireless headset stored in a clamshell charging case. (APPLE-1005, [0080].) This pair of devices that operate together to implement predetermined functionality—e.g., charging and storing—is consistent with a POSITA's understanding of a system. (APPLE-1003, ¶47 (citing APPLE-1025; APPLE-1026).)



Pet., 7.

Gundlach-Lee satisfies [1a]. Gundlach, for example, provides a portable charging case (portable switching device) coupled to a wireless headset (portable electronic device). (APPLE-1003, ¶48.)



The wireless headset depicted, described and relied upon in the Petition is depicted in Gundlach. *E.g.*, Ex. 1005, Figs. 1, 2a-f, 3a-b, 4a-b, 5a-b, 6a-c 14a-b, 17b-c, and 18a-b; Pet., passim.



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