US009271061B1

(12) **United States Patent**
Amores

(10) **Patent No.: US 9,271,061 B1**
(45) **Date of Patent: Feb. 23, 2016**

(54) **PERSONAL DETACHABLE MULTIPURPOSE WIRELESS ARMBAND LOUDSPEAKER SYSTEM**

(71) Applicant: **William Amores**, Homestead, FL (US)

(72) Inventor: **William Amores**, Homestead, FL (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 45 days.

(21) Appl. No.: **14/330,426**

(22) Filed: **Jul. 14, 2014**

Related U.S. Application Data

(60) Provisional application No. 61/846,713, filed on Jul. 16, 2013.

(51) **Int. Cl.**
H04R 1/02 (2006.01)

(52) **U.S. Cl.**
CPC ***H04R 1/02*** (2013.01)

(58) **Field of Classification Search**
CPC H04R 1/028; H04R 2499/15; H04R 5/02; H04R 2201/023; H04R 2499/11; H04R 1/1033; H04R 1/025
USPC 381/333
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,500,019	A *	2/1985	Curley, Jr.	A45F 5/00 224/222
4,913,326	A *	4/1990	Echelson	A45F 5/00 224/222
7,616,097	B1 *	11/2009	Whang	G09G 3/3406 340/321
7,810,750	B2 *	10/2010	Abreu	G02C 3/003 242/378.1
7,957,550	B2 *	6/2011	Jih-Fon	G06F 1/1626 381/332

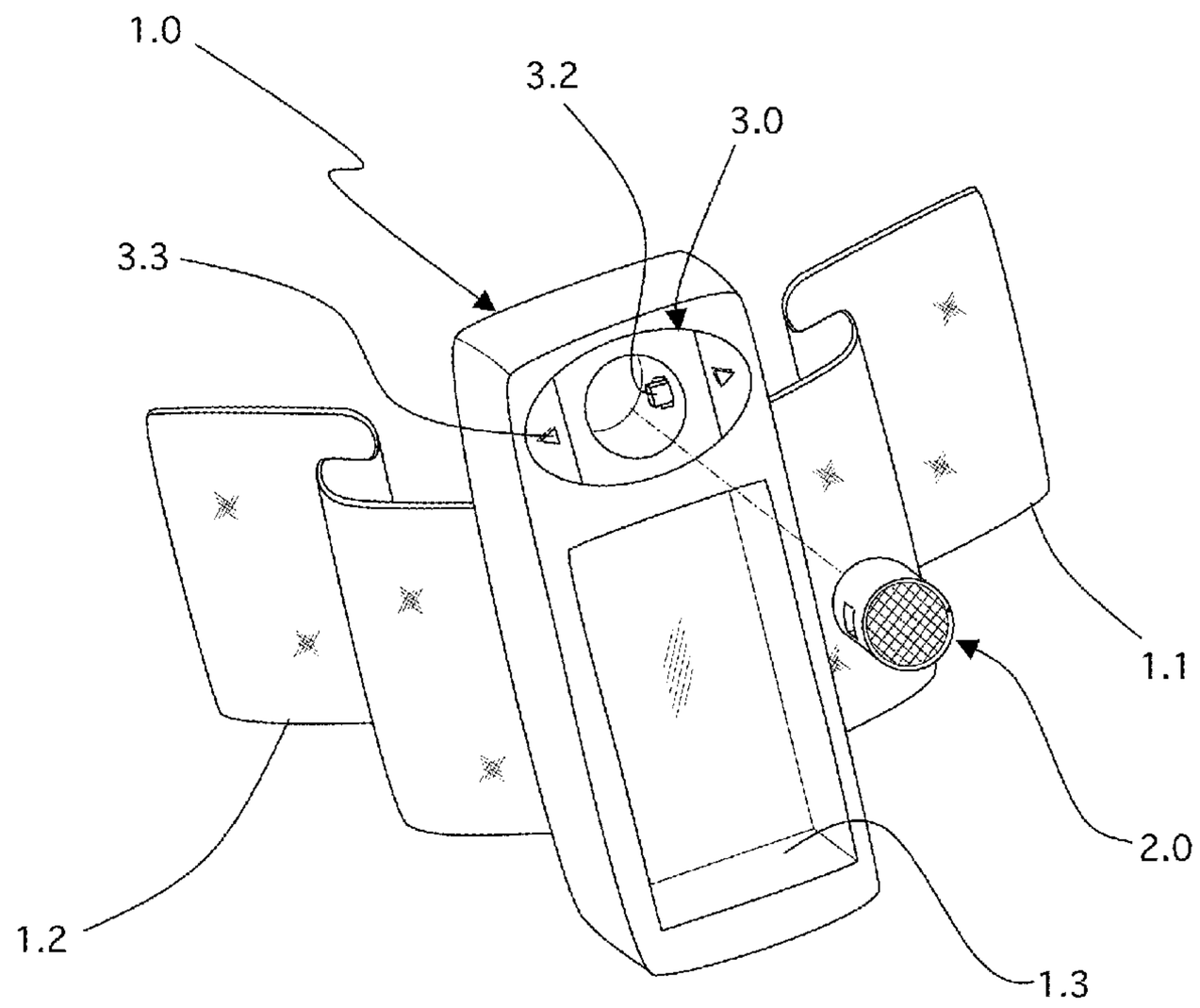
* cited by examiner

Primary Examiner — Mark Blouin
(74) *Attorney, Agent, or Firm* — Albert Bordas, P.A.

(57) **ABSTRACT**

A personal detachable multipurpose wireless armband loudspeaker system, having an armband assembly with at least one strap and a speaker dock that receives a loudspeaker therein. The armband assembly further has a device holder that receives a device, whereby the device is a computer, multimedia device, or smart phone. The speaker dock has at least one speaker dock anchor to secure the loudspeaker within the speaker dock. The speaker dock further has at least one disengage switch to unlock the loudspeaker from within the speaker dock. The speaker dock has a speaker base. The loudspeaker has at least one anchor lock receiver slot. The at least one anchor lock receiver slot receives the at least one speaker dock anchor to secure the loudspeaker within the speaker dock.

20 Claims, 6 Drawing Sheets



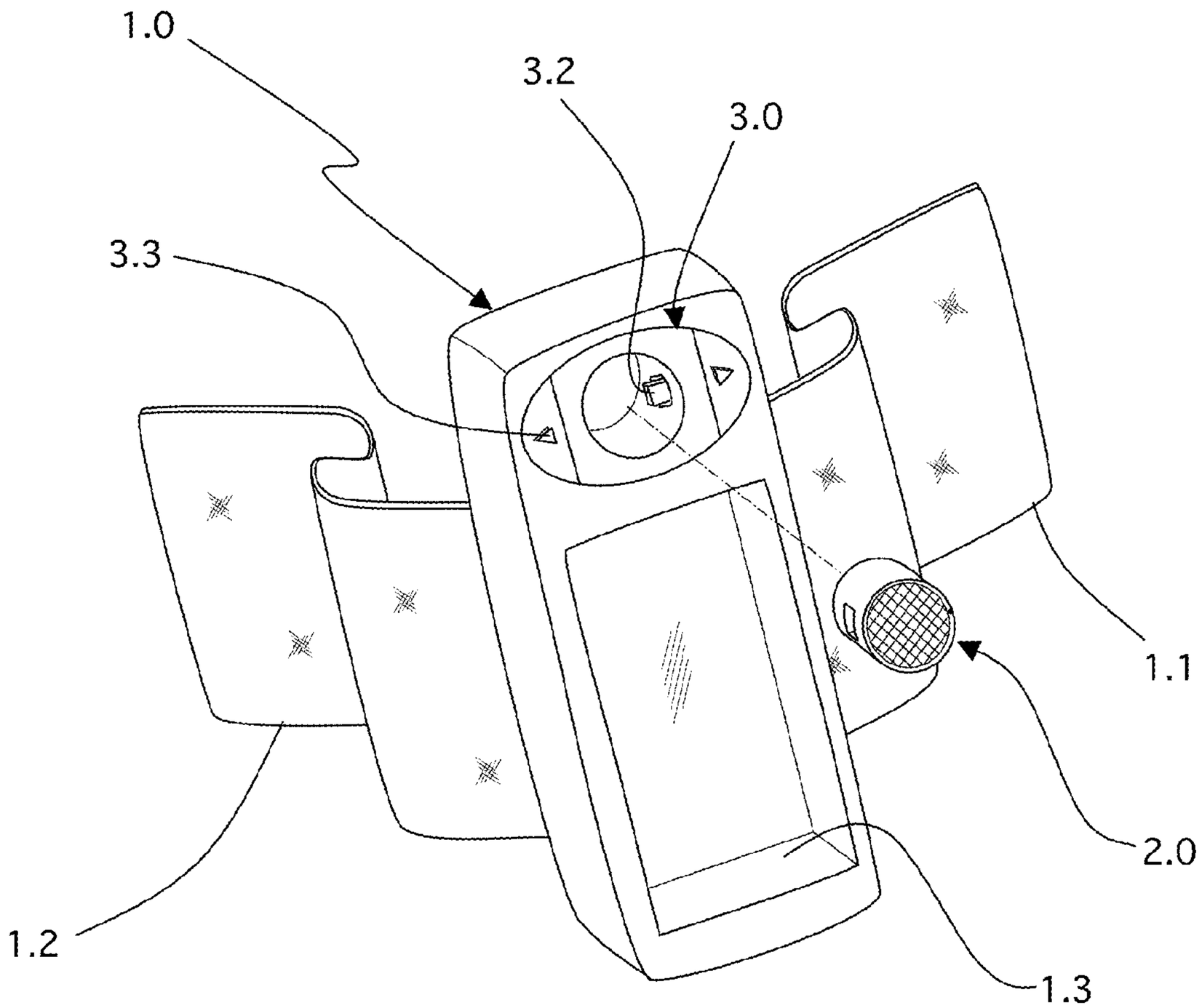


Fig. 1

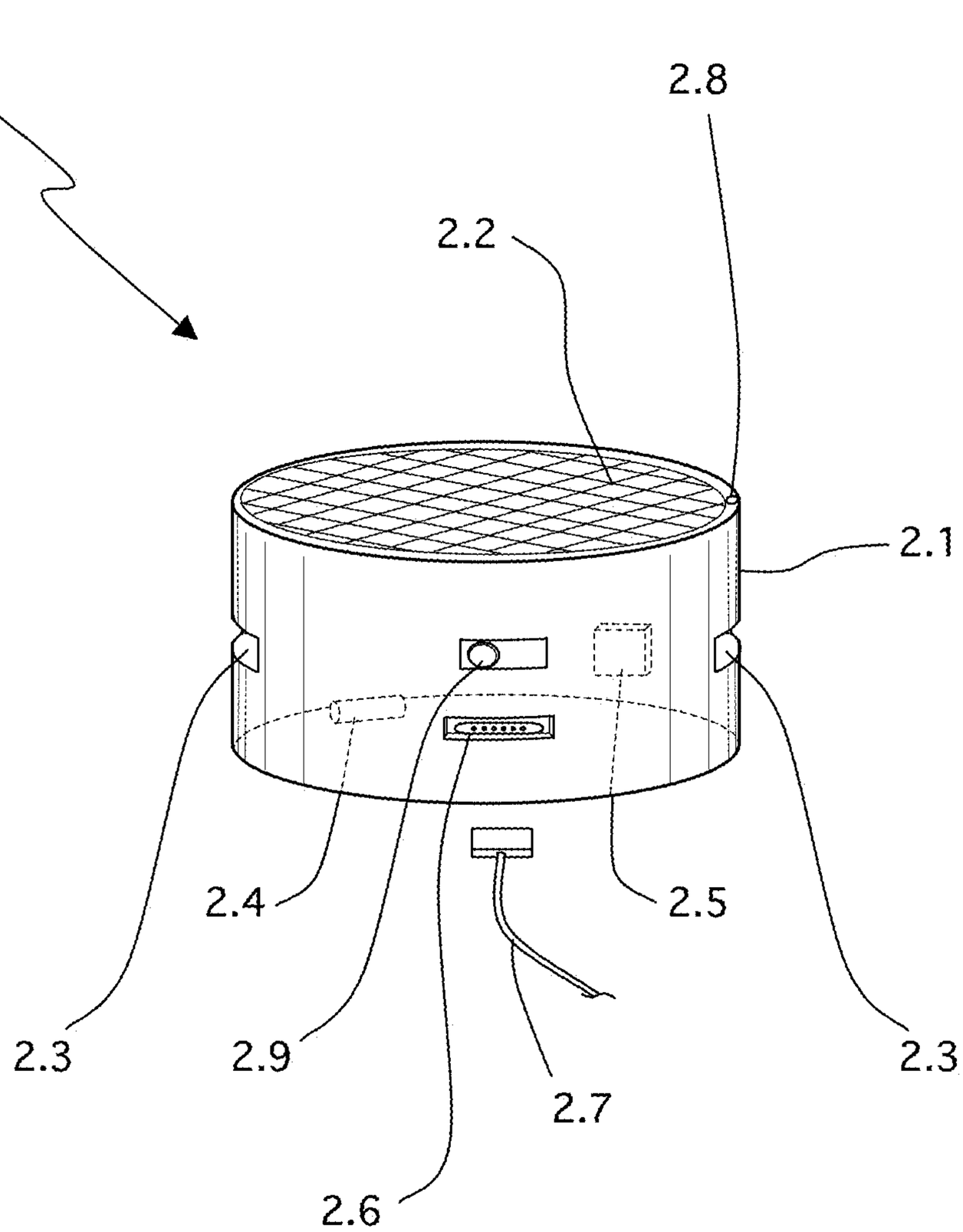


Fig. 2

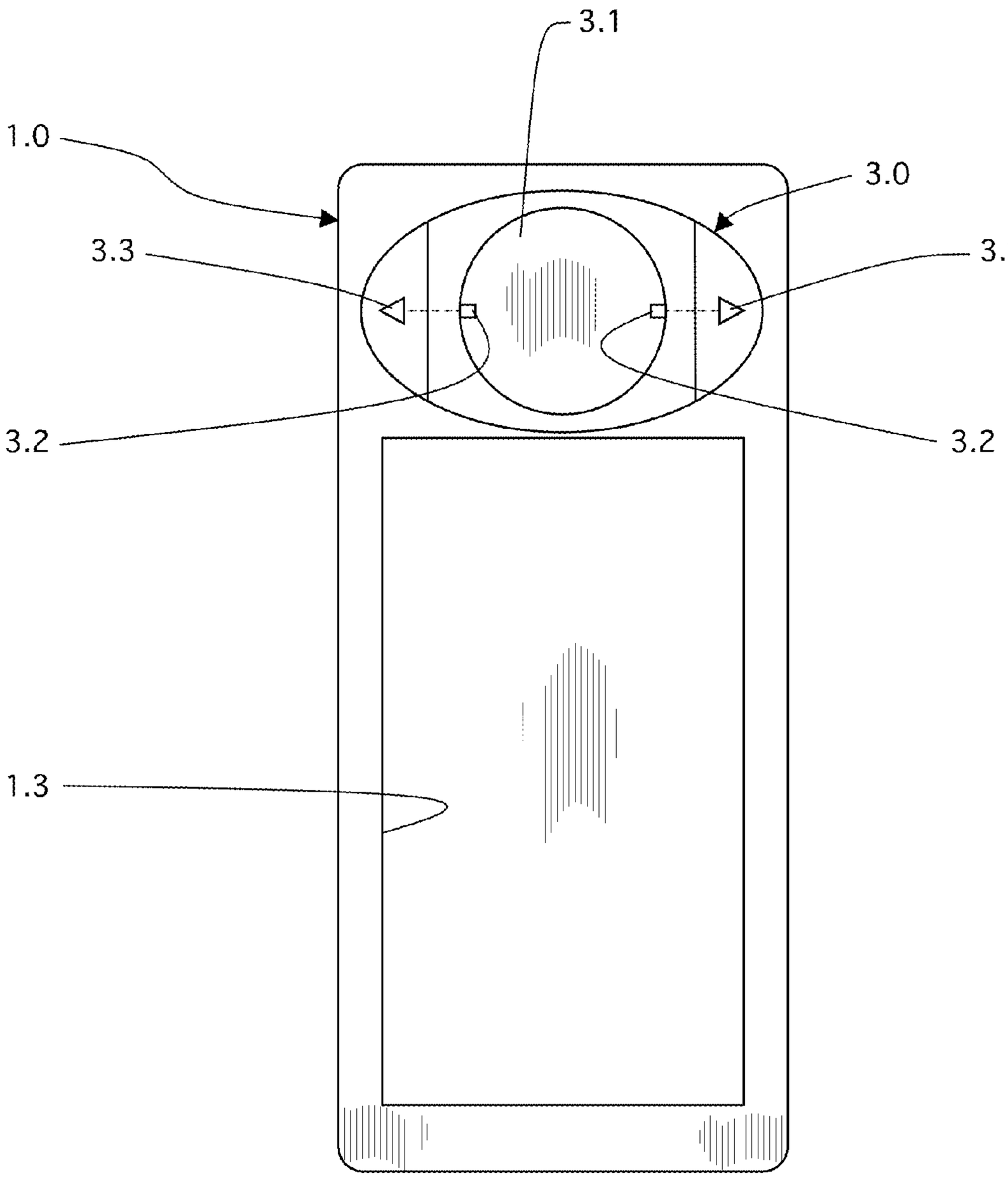


Fig. 3

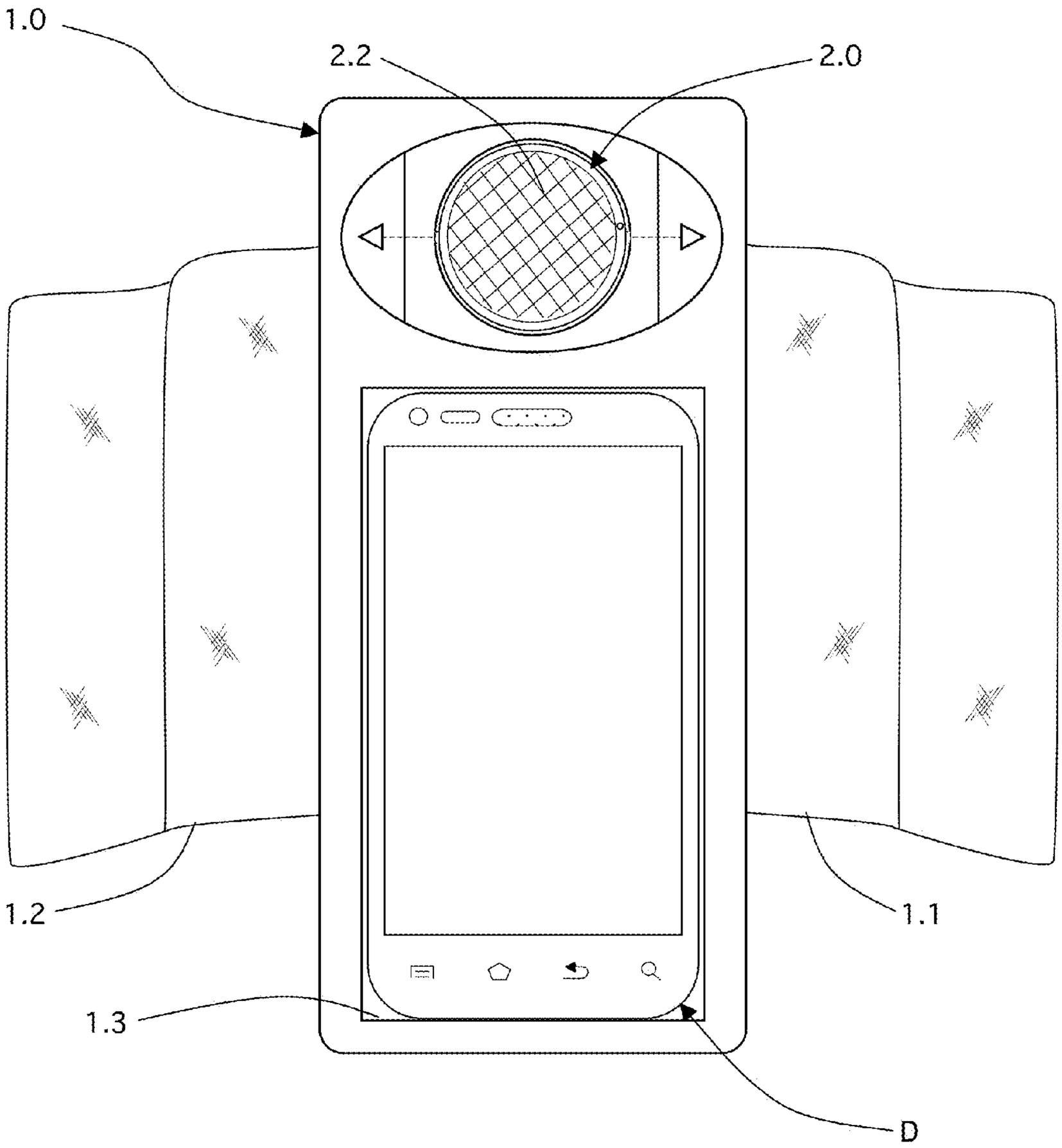


Fig. 4

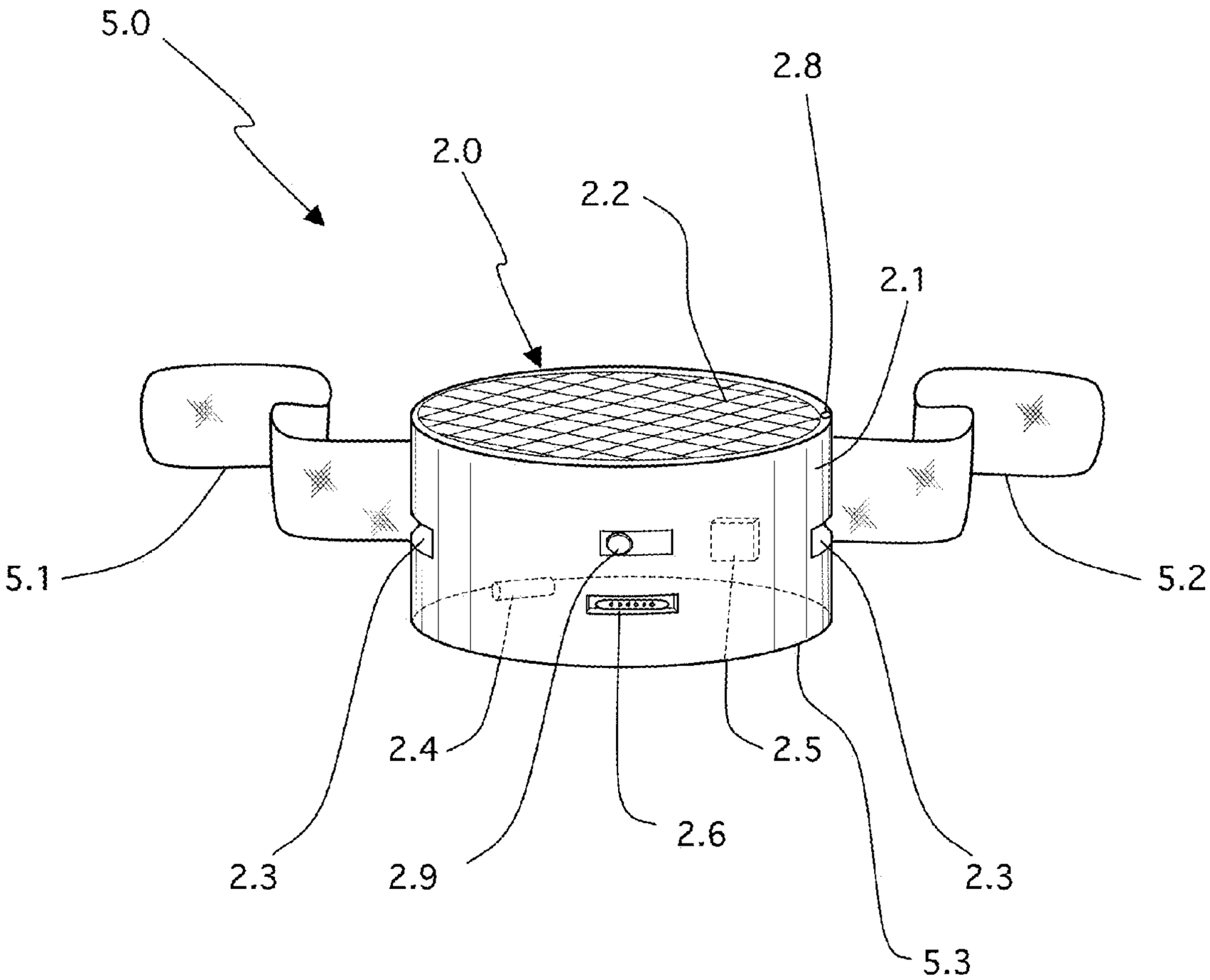


Fig. 5

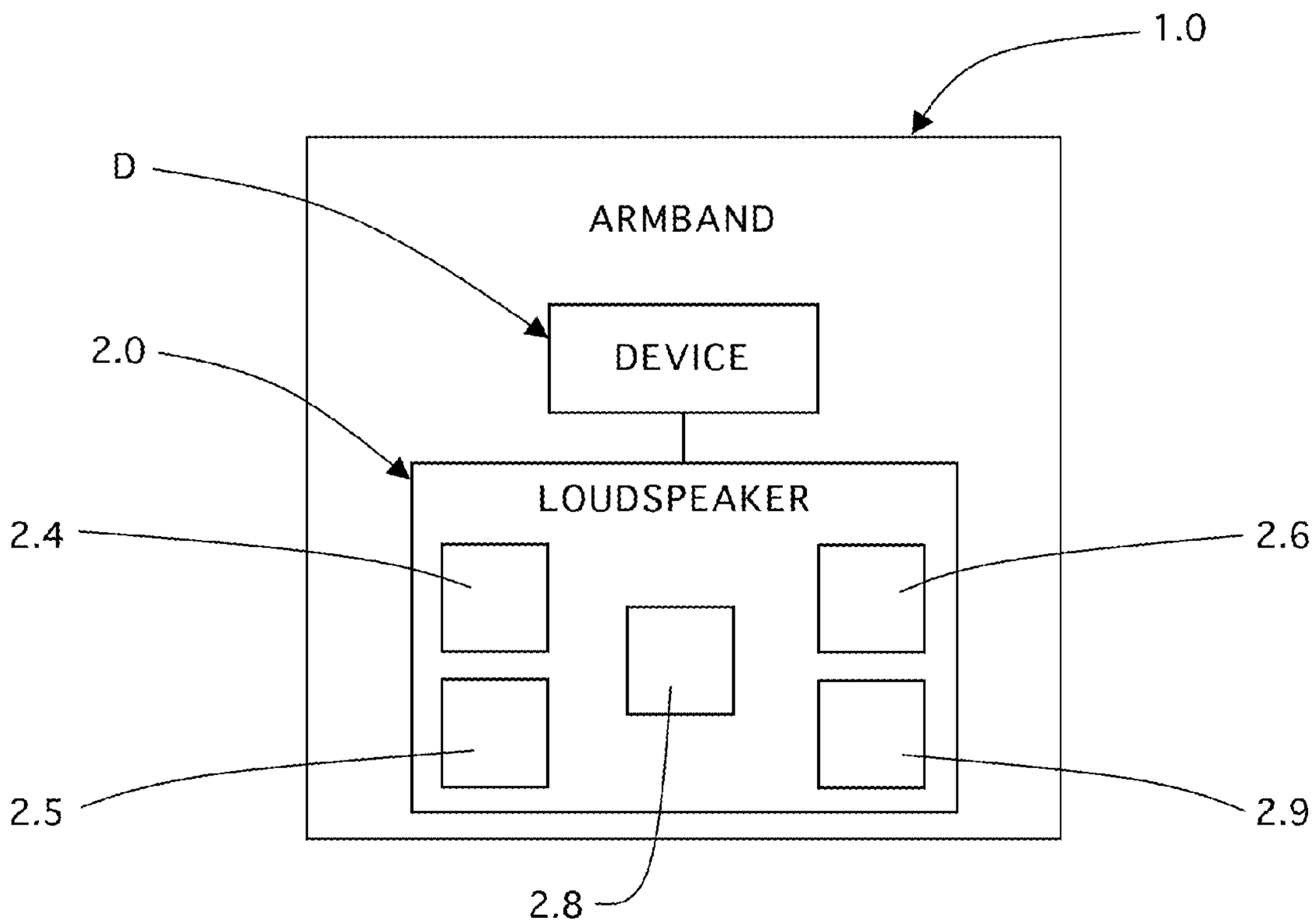


Fig. 6

PERSONAL DETACHABLE MULTIPURPOSE WIRELESS ARMBAND LOUDSPEAKER SYSTEM

II. BACKGROUND OF THE INVENTION

1. Field of the Invention

The present invention relates to wireless armband loudspeakers, and more particularly, to personal detachable multipurpose wireless armband loudspeaker systems that provide personal loudspeakers mounted to an armband assembly.

2. Other Related Applications

The present application is a Non-Provisional Application of U.S. Provisional Application No. 61/846,713, filed on Jul. 16, 2013, which is hereby incorporated by reference.

3. Description of the Related Art

Stereo and sound speaker systems are known in prior art. Applicant however is not aware of any prior art suggesting the novel features of the present invention, namely personal detachable multipurpose wireless armband loudspeaker systems that provide wireless personal loudspeakers mounted to an armband.

III. SUMMARY OF THE INVENTION

The instant invention relates to a wireless armband loudspeaker, which includes an armband having a right strap and a left strap, a multimedia smart phone device holder attached to the front of the armband, and a wired or wireless loudspeaker dock area, attached to the armband, designated for the attachment and use of a portable detachable wired or wireless loudspeaker.

More specifically, the present invention is a personal detachable multipurpose wireless armband loudspeaker system, comprising an armband assembly having at least one strap and a speaker dock that receives a loudspeaker therein. The armband assembly further has a device holder that receives a device, whereby the device is a computer, multimedia device, or smart phone.

The speaker dock comprises at least one speaker dock anchor to secure the loudspeaker within the speaker dock. The speaker dock further comprises at least one disengage switch to unlock the loudspeaker from within the speaker dock. The speaker dock comprises a speaker base. The loudspeaker comprises at least one anchor lock receiver slot. The at least one anchor lock receiver slot receives the at least one speaker dock anchor to secure the loudspeaker within the speaker dock.

The loudspeaker comprises at least one battery as a source of power or electrical energy. The loudspeaker further comprises at least one computer module that drives and processes all programmed frequency characters to receive and deliver communication between the loudspeaker and the device. The loudspeaker further comprises a communication power port for replenishment of electrical energy to the at least one battery. The loudspeaker receives a communication power cable. The loudspeaker further comprises a microphone. The loudspeaker comprises a power switch. The loudspeaker further comprises a speaker body. The loudspeaker further comprises a protective cover.

In an alternate embodiment, the personal detachable multipurpose wireless armband loudspeaker system comprises an armband assembly comprising at least one strap and a loudspeaker that works in conjunction with a device in a near proximity wirelessly, whereby the device is a computer, multimedia device, or smart phone.

The loudspeaker comprises at least one battery as a source of power or electrical energy, and at least one computer module that drives and processes all programmed frequency characters to receive and deliver communication between the loudspeaker and the device. The loudspeaker further comprises a communication power port for replenishment of electrical energy to the at least one battery, and receives a communication power cable, and a microphone, power switch, a speaker body, and a protective cover.

It is therefore one of the main objects of the present invention to provide a personal detachable multipurpose wireless armband loudspeaker system that can be mounted on an armband.

It is another object of this invention to provide a personal detachable multipurpose wireless armband loudspeaker system that may be utilized on various surfaces.

It is another object of this invention to provide a personal detachable multipurpose wireless armband loudspeaker system that can be attached to an armband.

It is another object of this invention to provide a personal detachable multipurpose wireless armband loudspeaker system that is a stand-alone wireless unit.

It is another object of this invention to provide a personal detachable multipurpose wireless armband loudspeaker system that that eliminates the need for headphones.

It is another object of this invention to provide a personal detachable multipurpose wireless armband loudspeaker system that can communicate with a smart phone or multi-media device.

It is another object of this invention to provide a personal detachable multipurpose wireless armband loudspeaker system that allows the user freedom of hands.

It is another object of this invention to provide a personal detachable multipurpose wireless armband loudspeaker system that is volumetrically efficient for carrying, transporting, and storage.

It is another object of this invention to provide a personal detachable multipurpose wireless armband loudspeaker system that can be readily assembled and disassembled without the need of any special tools.

It is another object of this invention to provide a personal detachable multipurpose wireless armband loudspeaker system, which is of a durable and reliable construction.

It is yet another object of this invention to provide such a device that is inexpensive to manufacture and maintain while retaining its effectiveness.

Further objects of the invention will be brought out in the following part of the specification, wherein detailed description is for the purpose of fully disclosing the invention without placing limitations thereon.

IV. BRIEF DESCRIPTION OF THE DRAWINGS

With the above and other related objects in view, the invention consists in the details of construction and combination of parts as will be more fully understood from the following description, when read in conjunction with the accompanying drawings in which:

FIG. **1** represents an isometric view of the personal detachable multipurpose wireless armband loudspeaker system, object of the present invention.

FIG. **2** is an isometric view of a loudspeaker.

FIG. **3** is a front view of a loudspeaker dock.

FIG. **4** is an isometric view of the present invention with the loudspeaker and a preferred device, multimedia device, or smart phone mounted thereon.

FIG. **5** is an isometric view of a second alternate embodiment of the present invention comprising a loudspeaker with straps and integrated anchoring method.

FIG. **6** is a diagram of sub-components of the present invention.

V. DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

Referring now to the drawings, the present invention is a personal detachable multipurpose wireless armband loudspeaker system. It can be observed that it basically includes armband assembly **1.0** and loudspeaker **2.0**.

As seen in FIG. **1**, armband assembly **1.0** is the foundation for said invention and provides a main structural body for the attachment of all sub elements for the invention, as well as a means for attachment to a user. Straps **1.1** and **1.2** can be removable, and are the main means for anchoring said invention to a persons preferred extremity. Straps **1.1** and **1.2** together, may stretch and wrap around a chosen limb, attaching to each other by various means common within the industry. Device holder **1.3** is the principle area designated for the storage and protection of a chosen computer, multimedia device, or smartphone D, seen in FIG. **4**. Device holder **1.3** is attached to a front side of armband assembly **1.0** and will be incorporated into armband assembly **1.0** for protecting and securing a users device D. Loudspeaker **2.0** is the source for the emitting and/or reproduction of audible sound, and may be detached if desired from armband assembly **1.0**. Loudspeaker **2.0** additionally may be also attached, or "docked" as known in such industry, for the securing and utilization of said invention to armband assembly **1.0**. Speaker dock **3.0** is an area designated for the attachment and location of loudspeaker **2.0**. Speaker dock **3.0** may be incorporated into armband assembly **1.0** for the security and safety of loudspeaker **2.0**. Thus, allowing safe, care free usage of said invention.

In a preferred embodiment, armband assembly **1.0** is a semi-flat structure, having a front end and a back end. However, various other none-flat structures may be utilized as armband assembly **1.0**. The function of armband assembly **1.0** is for a user to fasten a computer, multimedia device, or smartphone D, seen in FIG. **4**, and loudspeaker **2.0** to one's arm. Loudspeaker **2.0** is connected to armband assembly **1.0** at speaker dock **3.0**. Device holder **1.3** is stationary on armband assembly **1.0**.

Furthermore, armband assembly **1.0** is the main foundation to house all of the pertaining elements disclosed, consisting preferably of a soft and or flexible fabric, plastic or any combination of material thereof. Armband assembly **1.0** comprises device holder **1.3**, which essentially and effectively anchors and protects a user's preferred computer, multimedia device, or smartphone D, seen in FIG. **4**, from the elements, as well as allows the user to alter settings from the armband assembly **1.0** through a transparent barrier, or any such related material. Device holder **1.3** may have an element proof locking mechanism to seal from external damages, or elements such as water, or dirt. Armband assembly **1.0** also integrates speaker dock **3.0** to house detachable loudspeaker **2.0**. Armband assembly **1.0** secures onto a person via straps **1.1** and **1.2** in a general way such an invention can be connected to a person and can be made of soft or flexible materials or any combination of material, although many other various conventional attachment methods can be commonly utilized to anchor such an invention to a person.

As seen in FIG. **2**, loudspeaker **2.0** is the primary and principle source for the reproduction of audible sound. To achieve this, loudspeaker **2.0** comprises speaker body **2.1**, which is the main structural component in which allows the attachment of all the sub elements within said invention, as well as offers protection from debris and means for handling by a user. Protective cover **2.2** protects a diaphragm of loudspeaker **2.0** from contact with any foreign object, very commonly used in such industry.

Speaker dock anchors **3.2**, seen in FIG. **1**, allow the secure attachment of said invention to the designated and corresponding speaker dock **3.0**. By being an incorporation of speaker body **2.1**, it may lock into place within speaker dock **3.0**. Thus, offering carefree use, until deliberate detachment from speaker dock **3.0** is used. Battery **2.4** is the main source of power or electrical energy for the operation of said invention. It may be located within speaker body **2.1** for safety and security. Computer module **2.5** is the item that drives and processes all programmed frequency characters, and is the brain of said invention. Computer module **2.5** may be used to receive and deliver communication between loudspeaker **2.0** and the user selected compatible computer, multimedia device, or smartphone D, seen in FIG. **4**. Communication power port **2.6** is the designated area for the attachment of an external connection or cable, for the replenishment of electrical energy to battery **2.4**, as well as the optional transmission of information loudspeaker **2.0**. Communication power cable **2.7** is the means for the external connection to loudspeaker **2.0**, and may supply electrical current both for the operation of loudspeaker **2.0** and the replenishment of the electrical energy to battery **2.4**, as well as the relay of information to loudspeaker **2.0** from a compatible foreign source. Microphone **2.8** is the means for the registry of external sound, preferably a human's voice. With the aid of computer module **2.5**, it will relay such frequency back to the selected and compatible computer, multimedia device, or smartphone D, seen in FIG. **4**, for transmission, and ultimately back to the source. Power switch **2.9** is the means for selecting the allowance of stored energy from the battery **2.4** to flow to loudspeaker **2.0** for usability, as FIG. **6** illustrates, selectable to the "on" or "off" position, as well to interrupt the transmission of energy, thus being placed in the "off" or "standby" position.

In a preferred embodiment, loudspeaker **2.0** is a round structure, having a front end and a back end. Loudspeaker **2.0** is preferably comprised of a circular, flat or semi flat front and a descending rear structure. However, various other none-round or rear descending flat structures may be utilized for loudspeaker **2.0**. Loudspeaker **2.0** may include a housing, or body as speaker body **2.1** for the protection of the internal parts and workings of the present invention. The function speaker body **2.1** is also used for the user to grasp with one or both hands and dock or attach loudspeaker **2.0** to speaker dock **3.0** on armband assembly **1.0**. Thus, connecting loudspeaker **2.0** to armband assembly **1.0**.

Loudspeaker **2.0** is the primary means for the reproduction of audible sound, consisting of traditional materials, configuration and layout. Although loudspeaker **2.0** may be of a common type comprising of a diaphragm, frame basket, dust cap, pole piece, spider, voice coil, lead wires, and magnet, many other various conventional methods can be utilized to make loudspeaker **2.0**, or an equivalent audible sound reproduction device. Loudspeaker **2.0** can be housed in speaker body **2.1** and not only encapsulates loudspeaker **2.0** for enhanced sound quality, but also serves as a means of protection from debris, as well as also serves as a means to house and protect all of the pertaining functional parts within.

Protective cover **2.2** protects the diaphragm from damage and debris. Protective cover **2.2** can be made using many conventional materials and manufacturing protocols. Speaker dock anchors **3.2** are a means to attach and secure loud-

speaker **2.0** to speaker dock **3.0**, essentially locking loudspeaker **2.0** to speaker dock **3.0** to avoid ejection when anchored into place. Speaker dock anchors **3.2** can be incorporated to speaker body **2.1** via conventional molding methods or can be attached utilizing other manufacturing procedures commonly used in this industry. Battery **2.4** can be placed and housed within speaker body **2.1** and can be of the lithium-ion type, or any other long lasting battery suitable or equivalent for such an application. Loudspeaker **2.0** can be powered "on" or "off" utilizing power switch **2.9**. Power switch **2.9** can be incorporated utilizing any common practice techniques found within this common industry. Computer module **2.5** incorporates all of the wireless communication properties of loudspeaker **2.0** and can be housed within speaker body **2.1**. Computer module **2.5** may be of a computer chip kind, or a variation of chips combined for the common achievement of wireless transmission and or communication. Computer module **2.5** may be configured to be used on several different wireless frequencies to include but not be limited to airplay, Bluetooth, Wi-Fi, Wi-Gig, and any other suitable technology that can allow for the wireless communication or transmission between the wireless computer, multimedia device, or smartphone D, seen in FIG. **4**, and loudspeaker **2.0**. That may include, but not be limited, to wirelessly stream music, phone call, or any other such wireless communication commonly used in such an industry. Communication power port **2.6** is the primary means for loudspeaker **2.0** to be charged, and/or for communication use. Communication power port **2.6** can be of the USB kind, or of varying types or specifications, most commonly used in such an invention within the industry. Communication power port **2.6** can allow the connection of an appropriate corresponding communication power cable **2.7** to transmit any pertaining or selected media, as well as recharge or replenish battery **2.4** for the use of loudspeaker **2.0**. Communication power cable **2.7** can be the primary means for loudspeaker **2.0** to receive an exterior connection for the transmission of power to battery **2.4** and/or transmission of information to loudspeaker **2.0**, although it can also be used temporarily to transmit power to battery **2.4** or media. Microphone **2.8** can be used to relay human speech to loudspeaker **2.0**, allowing the user to engage in a conversation without disengaging armband assembly **1.0** from its location on the body. Microphone **2.8** can be of various specifications and materials as commonly used in such a related industry.

As seen in FIG. **3**, speaker dock **3.0** attaches, secures, retains loudspeaker **2.0** from being ejected when in a fastened position. Speaker dock **3.0** may be incorporated into the structure of armband assembly **1.0**. Furthermore, speaker dock **3.0** may have speaker base **3.1** to serve as a structural bottom for support of loudspeaker **2.0**. Speaker dock anchors **3.2** serve as means to interlock loudspeaker **2.0** with speaker dock **3.0**. Speaker dock anchors **3.2** engage into respective anchor lock receiver slots **2.3**, seen in FIG. **2**, of speaker body **2.1**, essentially locking loudspeaker **2.0** into position. Disengage switches **3.3** are the primary means for retrieval or separation of speaker dock **3.0** and loudspeaker **2.0**. When pressed, each disengage switch **3.3** unlocks speaker dock anchors **3.2** by moving each away from the predetermined and designated area on speaker body **2.1**. Ultimately allowing access to loudspeaker **2.0**, and the ability for separation of loudspeaker **2.0** for its use independently, separately from speaker dock **3.0**. The main purpose and reason for the elements in FIG. **3**, is primarily for the incorporation, retention and detachment of loudspeaker **2.0** for whatever means or desired by the user.

Furthermore, speaker dock **3.0** is an incorporated area structure on armband assembly **1.0**, having a front end and a rear end. Speaker dock **3.0** is preferably comprised of a round recessed area to accommodate loudspeaker **1.0**. However, various other none round, or recessed areas, may be utilized for speaker dock **3.0**. Speaker dock **3.0** may include a security feature or similar structure to anchor or lock loudspeaker **2.0** into the dock or base. The function of speaker dock **3.0** is for the user to securely connect or anchor, with one or both hands, loudspeaker **2.0** on or into speaker dock **3.0**.

Speaker dock **3.0** is connected to armband assembly **1.0** via various conventional attachment methods commonly utilized to manufacture. Speaker dock **3.0** may have speaker base **3.1** to seat, or centralize, the anchoring of loudspeaker **2.0** to speaker dock **3.0**. Speaker dock **3.0** can preferably be positioned in the center or near the most practical location for the usability. Speaker dock **3.0** may have speaker dock anchors **3.2** to securely fasten loudspeaker **2.0** to speaker dock **3.0**, as well as disengage switches **3.3** to effectively remove loudspeaker **2.0** from its location on speaker dock **3.0**. Speaker dock **3.0** may be manufactured or comprised of plastic or any other suitable material commonly used in the related industry of such invention.

As seen in FIG. **4**, loudspeaker **2.0** is mounted onto armband assembly **1.0**, allowing unified usage of said invention.

Loudspeaker **2.0** is integrated using common methods used in such industry. Furthermore, loudspeaker **2.0** may comprise Wi-Fi, or any similar wireless communication capabilities, as well as connected or wired capabilities, to communicate to computer, multimedia device, or smartphone D, seen in FIG. **4**. Protective cover **2.2** is integrated to loudspeaker **2.0** to protect from debris, and other foreign objects. Armband assembly **1.0** is the main structural, and foundation for the placement of loudspeaker **2.0** and all other sub elements. Straps **1.1** and **1.2** anchor armband assembly **1.0** to a chosen location on the body or limb of the user, firmly securing armband assembly **1.0** to the user. Similarly as in FIG. **2**, battery **2.4** can be incorporated into armband assembly **1.0** and be rechargeable to power loudspeaker **2.0**. Communication cable **2.7** can be used to connect loudspeaker **2.0** to the chosen compatible computer, multimedia device, or smartphone D, seen in FIG. **4**, offering the option of wired communication via communication cable **2.7**. When in use, loudspeaker **2.0** is practical and useful in offering the user a functional way to hear his or her selected audio media.

Alternatively, loudspeaker **2.0** may be stationary, instead of detachable. Various other sound producing loudspeakers may also be used. When stationary, loudspeaker **2.0** is integrated or molded on armband assembly **1.0** utilizing conventional methods. The function of the stationary loudspeaker **2.0** is for a user to anchor such an invention to a person's arm within a single unit. By connecting both loudspeaker **2.0** and armband assembly **1.0**, the user can have ease of use.

Seen in FIG. **5** is loudspeaker with integrated anchoring method **5.0** comprising speaker body **2.1** that provides structural support, a means to be handled, and protection from debris. Speaker body **2.1** houses and protects components within. Protective cover **2.2** protects loudspeaker **2.0** from debris. Straps **5.1** and **5.2**, when used together, anchor said invention to a user's selected body, or limb. Base plate **5.3** is the means to sustain said invention if preferred in a standing or erect position on a surface. Battery **2.4** is the means for said invention to store electrical power for the usage of said invention at the user's discretion. Computer module **2.5** is the means for said invention to relay information from a selected compatible source devise via a predetermined or pre-programmed frequency or signal to the loudspeaker **2.0** for the audible reproduction of selected media. Power switch **2.9** is the means for the user to allow the transmission of stored

electrical power from battery **2.4** to be conveyed to loudspeaker **2.0** for the reproduction of sound. The illustrated loudspeaker with integrated anchoring method **5.0** works in conjunction with a compatible computer, multimedia device, or smartphone D, seen in FIG. **4**, in the near proximity wirelessly.

Seen in FIG. **6** are sub-components of the present invention depicting the common relation of the transmission of electrical power from battery **2.4**, which stores the electrical power for the usage of said invention at the user's discretion. Power switch **2.9** allows, or interrupts, the electrical circuit loop necessary for the conveyance of electrical power to flow to loudspeaker **2.0** at the user's choice. Loudspeaker **2.0** is the means of audible sound reproduction and is the last step in the process of the conveyance of electrical power, essentially converting the electrical power into audible sound frequency.

In operation, the user first may grasp loudspeaker **2.0** by speaker body **2.1** then after, may activate loudspeaker **2.0** by manipulating power switch **2.9** into the "on" position, which will be into a closed state. An electrical circuit shall be closed with power switch **2.9** and battery **2.4** on speaker body **2.1**, thereby allowing electrical power to flow from battery **2.4** to loudspeaker **2.0**. Loudspeaker **2.0** thereafter is activated and able to receive an external wireless signal chosen by the user and emit audible sound. The user may continue to attach armband assembly **1.0** since the user will be engaging in physical activity, to his/hers selected area of choice, preferably a person's arm, by manipulating straps **1.1** and **1.2** into the user's desired position. The user may place loudspeaker **2.0** into designated speaker dock **3.0**, securing loudspeaker **2.0** from any accidental ejection. Then after, inserting loudspeaker **2.0** in the designated speaker dock **3.0** at any given moment of time at beginning or end of process, allowing the user to place a compatible computer, multimedia device, or smartphone D, seen in FIG. **4**, into device holder **1.3** for safe storage and protection. Thus, when successfully paired or synchronized with the appropriate frequency or channel of loudspeaker **2.0** governed by computer module **2.5**, the compatible computer, multimedia device, or smartphone D, seen in FIG. **4** will communicate wirelessly with loudspeaker **2.0**. Once successfully synchronized, the user can further entertain a phone call, whether incoming or outgoing with the incorporated microphone **2.8** wirelessly, governed as well by computer module **2.5**. The user may have then finished the session of physical activity and decide to continue use of loudspeaker **2.0**. The user may pinch, with any combinations of fingers, speaker dock disengage switches **3.3** to unlock loudspeaker **2.0** from its locked state from armband assembly **1.0**, on speaker dock **3.0**, freeing loudspeaker **2.0** from the secured area from which it was docked, and allowing individual use of loudspeaker **2.0** solely and wirelessly. The user may place loudspeaker **2.0** on any flat surface and may keep loudspeaker **2.0** standing or erect, using the stand **5.3**, which may assist in positioning loudspeaker **2.0**.

Furthermore, the user may charge the internal battery **2.4** for future use with the communication power cable **2.7**, allowing the connected communication power cable **2.7** to supply power to battery **2.4**. Moreover, the user may also have the option to maintain loudspeaker **2.0** connected to communication power cable **2.7** for the benefit of allowing battery **2.4** to sustain a constant full charge, additionally may also relay digital information from the selected computer, multimedia device, or smartphone D, seen in FIG. **4** to loudspeaker **2.0** through communication power cable **2.7** likewise. After the user is finished, the user then manipulates power switch **2.9** to an open state on loudspeaker **2.0**, thereby opening the circuit between loudspeaker **2.0** and battery **2.4**, which terminates the emission of sound from loudspeaker **2.0**. Moreover, the user may place armband assembly **1.0** on any limb or part of a person's body, preferably the arm, without the activation of loudspeaker **2.0**. Loudspeaker **2.0** may be activated "on" or "off" while on armband assembly **1.0**.

The foregoing description conveys the best understanding of the objectives and advantages of the present invention. Different embodiments may be made of the inventive concept of this invention. It is to be understood that all matter disclosed herein is to be interpreted merely as illustrative, and not in a limiting sense.

What is claimed is:

1. A personal detachable multipurpose wireless armband loudspeaker system, comprising an armband assembly comprising at least one strap and a speaker dock that receives a loudspeaker therein, said armband assembly further comprising a device holder that receives a device.

2. The personal detachable multipurpose wireless armband loudspeaker system set forth in claim **1**, further characterized in that said device is a computer, multimedia device, or smart phone.

3. The personal detachable multipurpose wireless armband loudspeaker system set forth in claim **1**, further characterized in that said speaker dock comprises at least one speaker dock anchor to secure said loudspeaker within said speaker dock.

4. The personal detachable multipurpose wireless armband loudspeaker system set forth in claim **3**, further characterized in that said speaker dock further comprises at least one disengage switch to unlock said loudspeaker from within said speaker dock.

5. The personal detachable multipurpose wireless armband loudspeaker system set forth in claim **3**, further characterized in that said loudspeaker comprises at least one anchor lock receiver slot.

6. The personal detachable multipurpose wireless armband loudspeaker system set forth in claim **5**, further characterized in that said at least one anchor lock receiver slot receives said at least one speaker dock anchor to secure said loudspeaker within said speaker dock.

7. The personal detachable multipurpose wireless armband loudspeaker system set forth in claim **1**, further characterized in that said loudspeaker comprises at least one battery as a source of power or electrical energy.

8. The personal detachable multipurpose wireless armband loudspeaker system set forth in claim **1**, further characterized in that said loudspeaker comprises at least one computer module that drives and processes all programmed frequency characters to receive and deliver communication between said loudspeaker and said device.

9. The personal detachable multipurpose wireless armband loudspeaker system set forth in claim **7**, further characterized in that said loudspeaker comprises a communication power port for replenishment of electrical energy to said at least one battery.

10. The personal detachable multipurpose wireless armband loudspeaker system set forth in claim **1**, further characterized in that said loudspeaker receives a communication power cable.

11. The personal detachable multipurpose wireless armband loudspeaker system set forth in claim **1**, further characterized in that said loudspeaker comprises a microphone.

12. The personal detachable multipurpose wireless armband loudspeaker system set forth in claim **1**, further characterized in that said loudspeaker comprises a power switch.

13. The personal detachable multipurpose wireless armband loudspeaker system set forth in claim **1**, further characterized in that said loudspeaker comprises a speaker body.

14. The personal detachable multipurpose wireless armband loudspeaker system set forth in claim **1**, further characterized in that said loudspeaker comprises a protective cover.

15. The personal detachable multipurpose wireless armband loudspeaker system set forth in claim **3**, further characterized in that said speaker dock comprises a speaker base.

16. A personal detachable multipurpose wireless armband loudspeaker system, comprising an armband assembly comprising at least one strap and a loudspeaker that works in conjunction with a device in a near proximity wirelessly.

17. The personal detachable multipurpose wireless armband loudspeaker system set forth in claim **16**, further characterized in that said device is a computer, multimedia device, or smart phone.

18. The personal detachable multipurpose wireless armband loudspeaker system set forth in claim **16**, further characterized in that said loudspeaker comprises at least one battery as a source of power or electrical energy, and at least one computer module that drives and processes all programmed frequency characters to receive and deliver communication between said loudspeaker and said device.

19. The personal detachable multipurpose wireless armband loudspeaker system set forth in claim **16**, further characterized in that said loudspeaker comprises a communication power port for replenishment of electrical energy to said at least one battery, and receives a communication power cable.

20. The personal detachable multipurpose wireless armband loudspeaker system set forth in claim **16**, further characterized in that said loudspeaker comprises a microphone, power switch, a speaker body, and a protective cover.

* * * * *