



US00D669057S

(12) **United States Design Patent**
Zheng et al.

(10) **Patent No.:** **US D669,057 S**

(45) **Date of Patent:** **** Oct. 16, 2012**

(54) **EARPHONE**

(75) Inventors: **Qi Zheng**, Tokyo (JP); **Rui Morisawa**, Tokyo (JP); **Tomotsugu Minamikawa**, Tokyo (JP); **Jun Komiya**, Tokyo (JP); **Taichi Nokuo**, Tokyo (JP)

(73) Assignee: **Sony Corporation**, Tokyo (JP)

(**) Term: **14 Years**

(21) Appl. No.: **29/371,938**

(22) Filed: **Feb. 1, 2012**

(30) **Foreign Application Priority Data**

| | | | |
|---------------|------|-------|----------------|
| Aug. 2, 2011 | (JP) | ..... | D2011-017731 |
| Aug. 2, 2011 | (JP) | ..... | D2011-017732 |
| Aug. 12, 2011 | (CN) | ..... | 2011 3 0269422 |
| Aug. 12, 2011 | (CN) | ..... | 2011 3 0270343 |
| Aug. 26, 2011 | (JP) | ..... | D2011-019350 |
| Aug. 30, 2011 | (JP) | ..... | D2011-019595 |
| Aug. 31, 2011 | (CN) | ..... | 2011 3 0302002 |

(51) **LOC (9) Cl.** **14-01**

(52) **U.S. Cl.** **D14/223**

(58) **Field of Classification Search** D14/205, D14/206, 223; 181/129, 130, 135; 381/380, 381/381; 379/430, 431; 455/90.3, 575.2
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

| | | | | | |
|-----------|-----|---------|-----------------|-------|---------|
| 2,641,327 | A * | 6/1953 | Balmer | ..... | 181/129 |
| D242,724 | S * | 12/1976 | Brodie | ..... | D14/205 |
| 4,020,297 | A * | 4/1977 | Brodie | ..... | 379/430 |
| 4,617,431 | A * | 10/1986 | Scott et al. | ..... | 381/344 |
| D311,521 | S * | 10/1990 | Jonsson et al. | ..... | D14/226 |
| 5,412,736 | A * | 5/1995 | Kelilikiki | ..... | 381/381 |
| D375,959 | S * | 11/1996 | Davis et al. | ..... | D14/223 |
| 5,625,171 | A * | 4/1997 | Marshall | ..... | 181/130 |
| 5,761,298 | A * | 6/1998 | Davis et al. | ..... | 379/430 |
| D403,327 | S * | 12/1998 | Landreth et al. | ..... | D14/223 |
| 6,104,824 | A * | 8/2000 | Ito | ..... | 381/381 |
| D441,739 | S * | 5/2001 | Hayes et al. | ..... | D14/223 |

| | | | | | |
|-----------|------|---------|----------------|-------|-----------|
| D457,156 | S * | 5/2002 | Nguyen | ..... | D14/223 |
| D474,178 | S * | 5/2003 | Eroma | ..... | D14/223 |
| D501,196 | S * | 1/2005 | Dyer et al. | ..... | D14/205 |
| 7,089,042 | B2 * | 8/2006 | Bodley | ..... | 455/569.1 |
| D556,740 | S * | 12/2007 | Xavier | ..... | D14/223 |
| D558,110 | S * | 12/2007 | Ozeki et al. | ..... | D12/192 |
| D565,557 | S * | 4/2008 | Kaneda | ..... | D14/226 |
| D575,772 | S * | 8/2008 | Schultz et al. | ..... | D14/223 |
| D581,395 | S * | 11/2008 | Sade et al. | ..... | D14/205 |
| 7,708,110 | B2 * | 5/2010 | Leong et al. | ..... | 181/135 |

(Continued)

Primary Examiner — Paula Greene

(74) *Attorney, Agent, or Firm* — Rader, Fishman & Grauer PLLC

(57) **CLAIM**

The ornamental design for an earphone, as shown and described.

DESCRIPTION

FIG. 1 is a perspective view of an earphone showing my new design;

FIG. 2 is a top plan view thereof;

FIG. 3 is a left side elevational view thereof;

FIG. 4 is a right side elevational view thereof;

FIG. 5 is a perspective view thereof wherein the earphone is in an extended position;

FIG. 6 is a front elevational view thereof;

FIG. 7 is a left side elevational view thereof;

FIG. 8 is a right side elevational view thereof;

FIG. 9 is a top plan view thereof; and

FIG. 10 is a bottom plan view thereof.

FIG. 11 is an enlarged perspective view thereof along the line 11-11 of FIG. 5.

FIG. 12 is an enlarged cross sectional view thereof along the line 12-12 of FIG. 6.

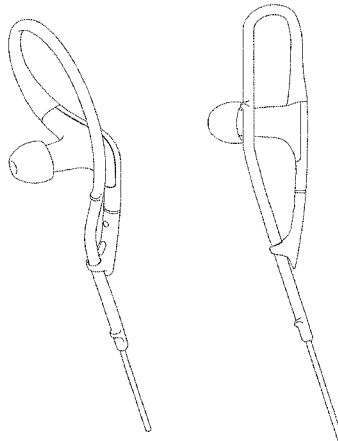
FIG. 13 is an enlarged front elevational view thereof along the line 13-13 of FIG. 6.

FIG. 14 is an enlarged right side elevational view thereof along the line 14-14 of FIG. 8.

FIG. 15 is an enlarged cross sectional view thereof along the lines 15-15 and 15'-15' of FIGS. 12 and 13 respectively; and,

FIG. 16 is an enlarged cross sectional view thereof along the line 16-16 of FIG. 14.

1 Claim, 13 Drawing Sheets



US D669,057 S

Page 2

| U.S. PATENT DOCUMENTS | | | |
|-----------------------|--------|-----------------------|---------|
| D619,561 S * | 7/2010 | Yang | D14/205 |
| D624,529 S * | 9/2010 | Huang | D14/223 |
| D635,960 S * | 4/2011 | Gondo et al. | D14/223 |
| D639,787 S * | 6/2011 | Quek | D14/223 |
| D643,418 S * | 8/2011 | Lee et al. | D14/223 |
| D645,454 S * | 9/2011 | Quek | D14/223 |
| D645,458 S * | 9/2011 | Silvestri et al. | D14/223 |
| 2009/0141923 A1 * | 6/2009 | Smith | 381/371 |

* cited by examiner

FIG. 1

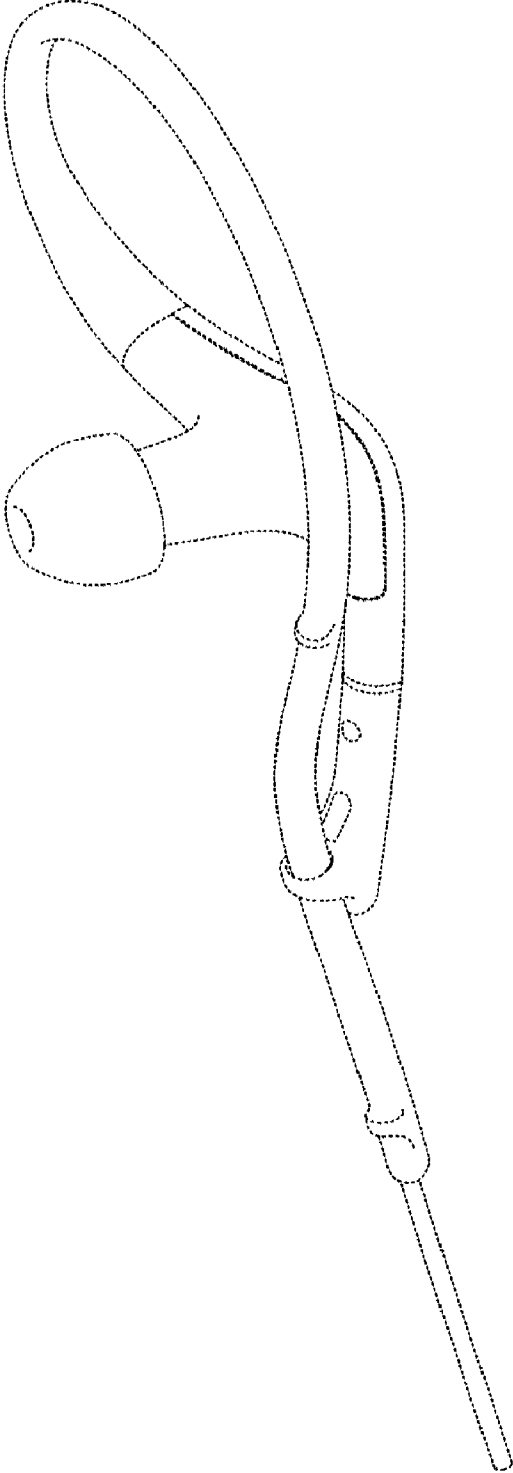


FIG.2

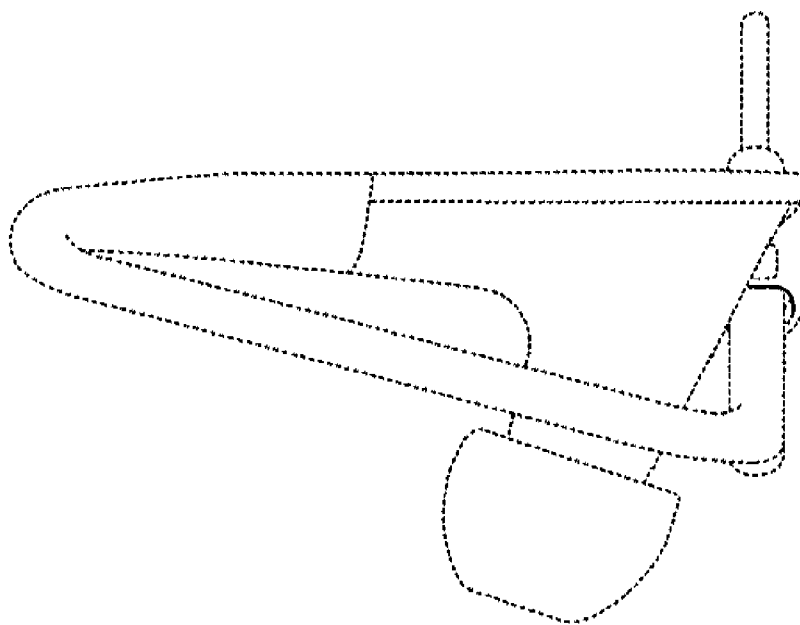


FIG.3

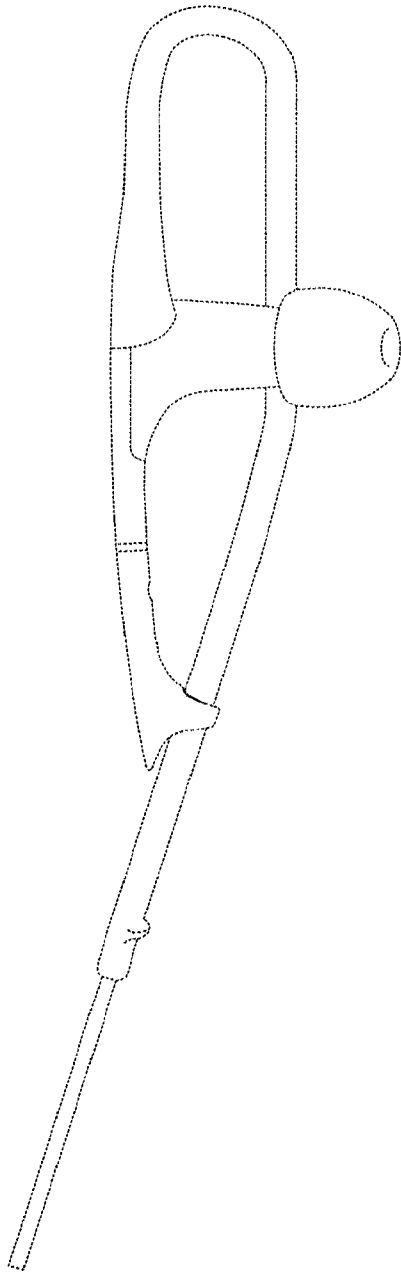


FIG.4

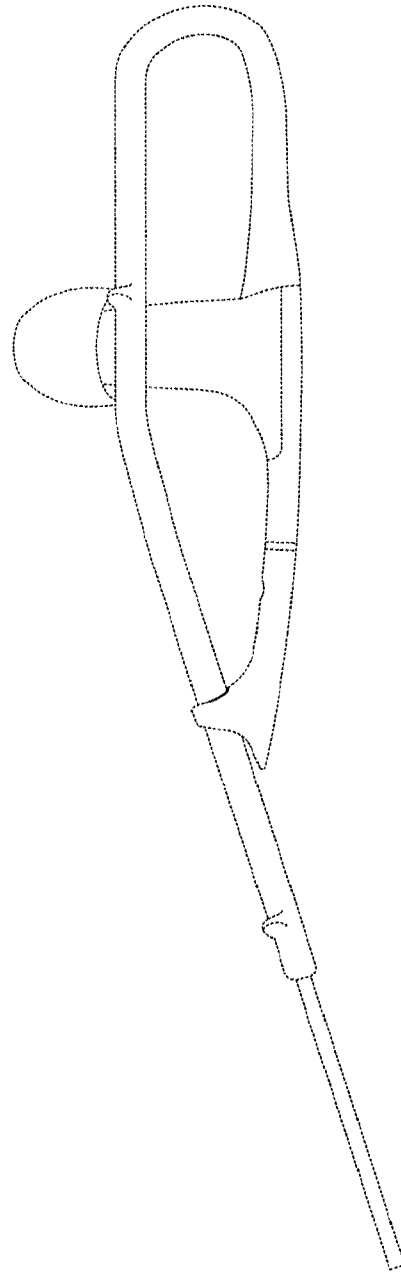


FIG.5

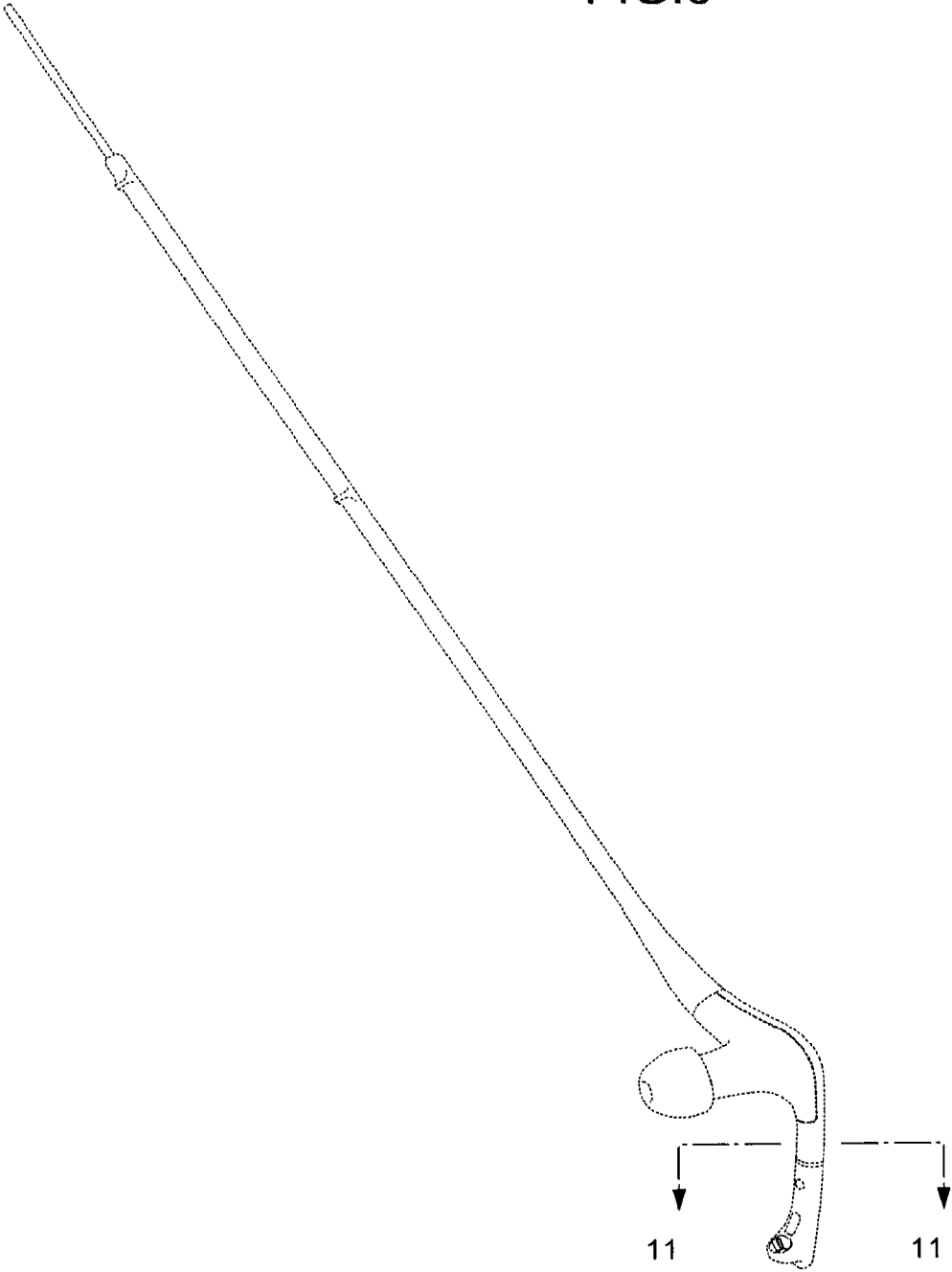


FIG.6

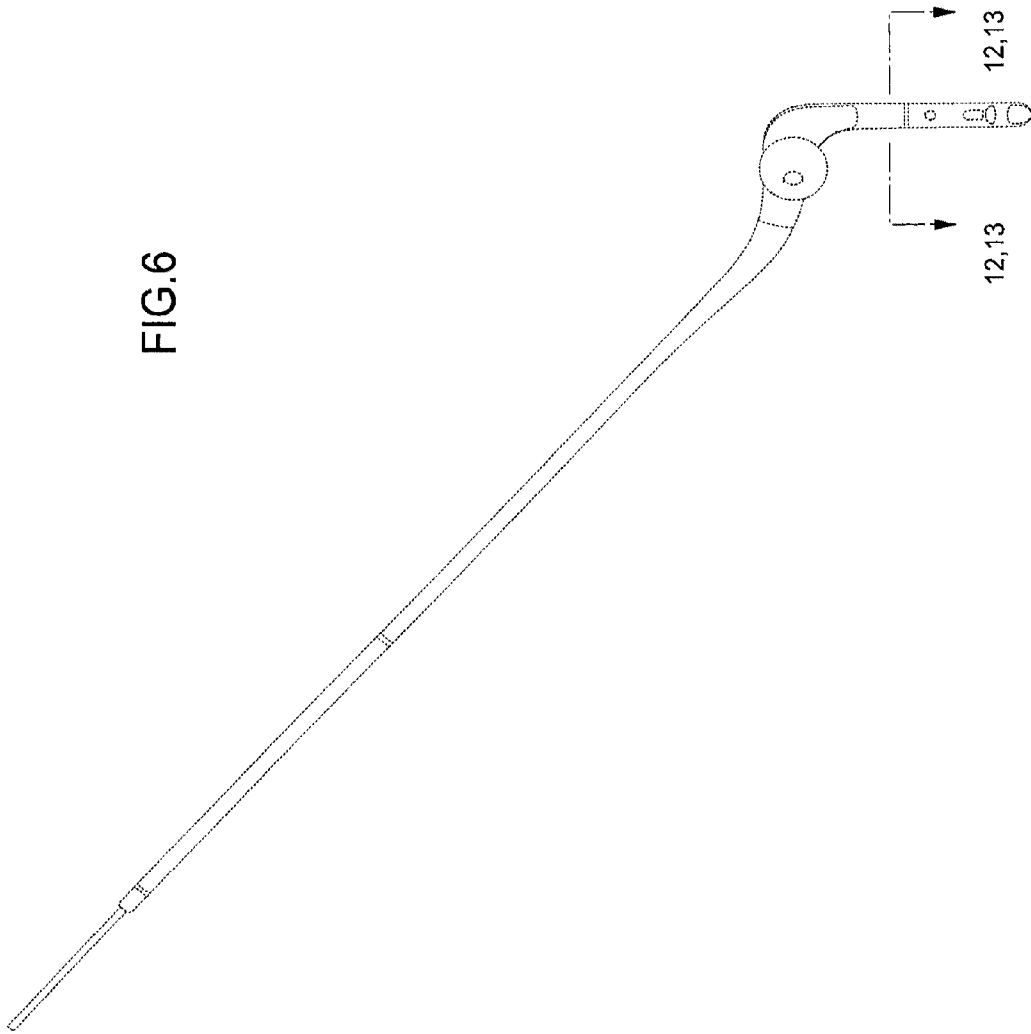


FIG.7

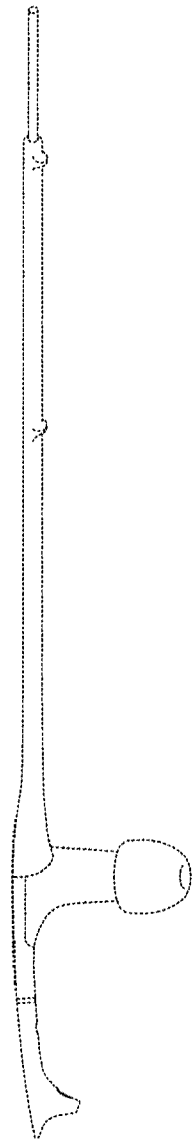


FIG.8

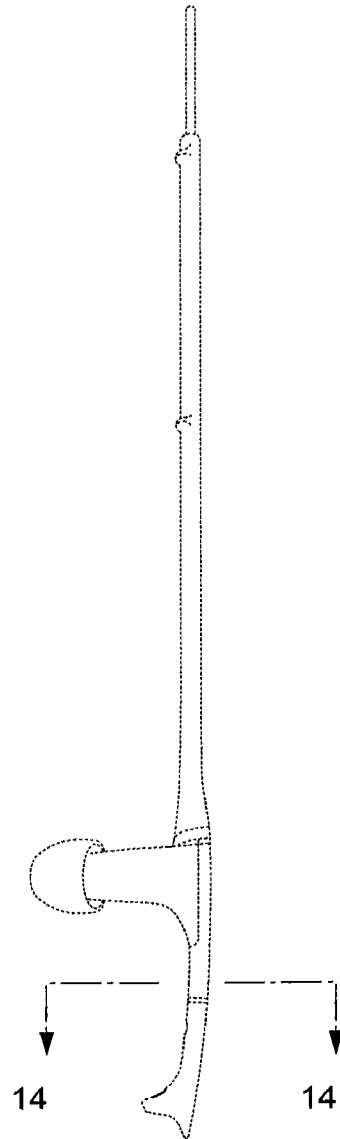


FIG.9

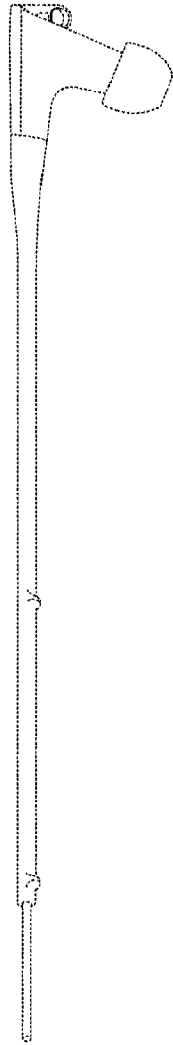


FIG.10

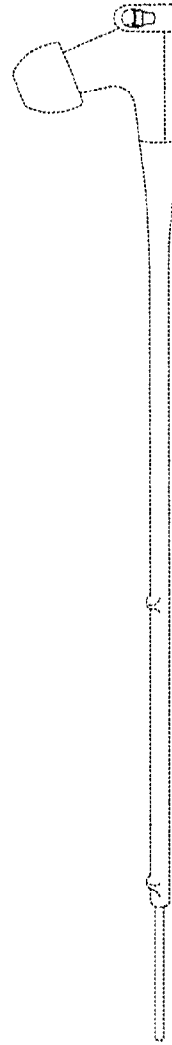


FIG. 11

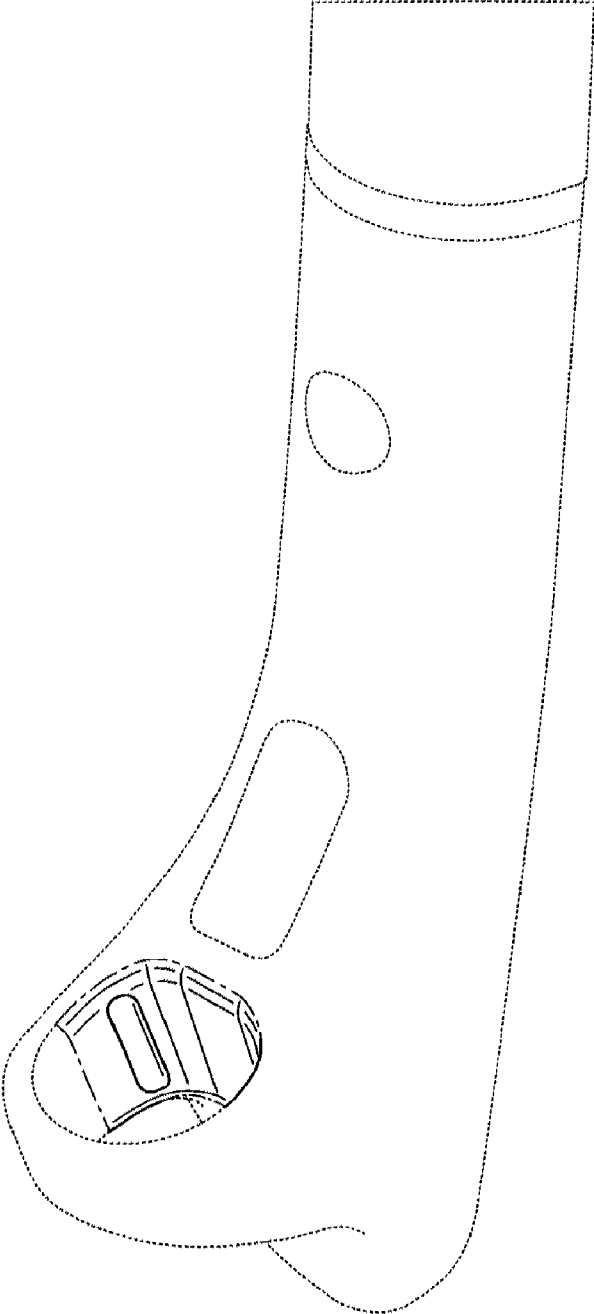


FIG. 12

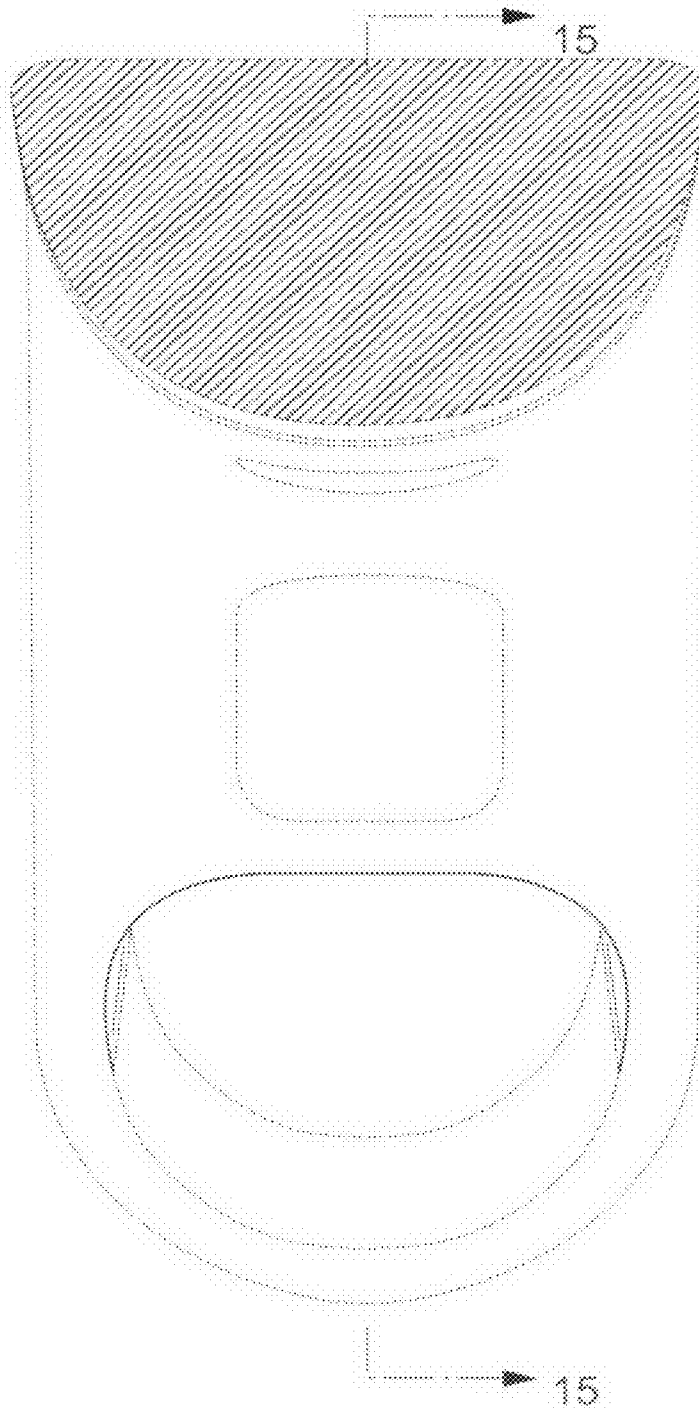


FIG. 13

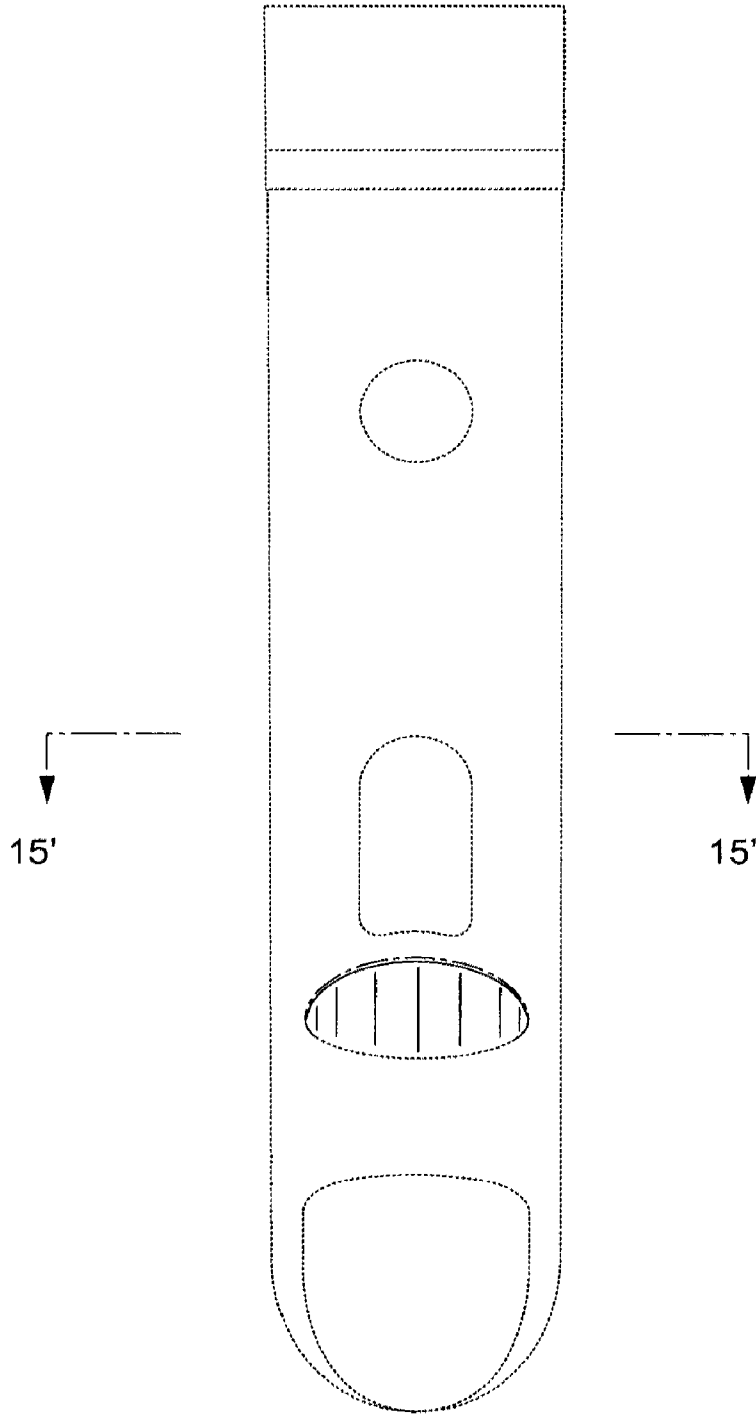
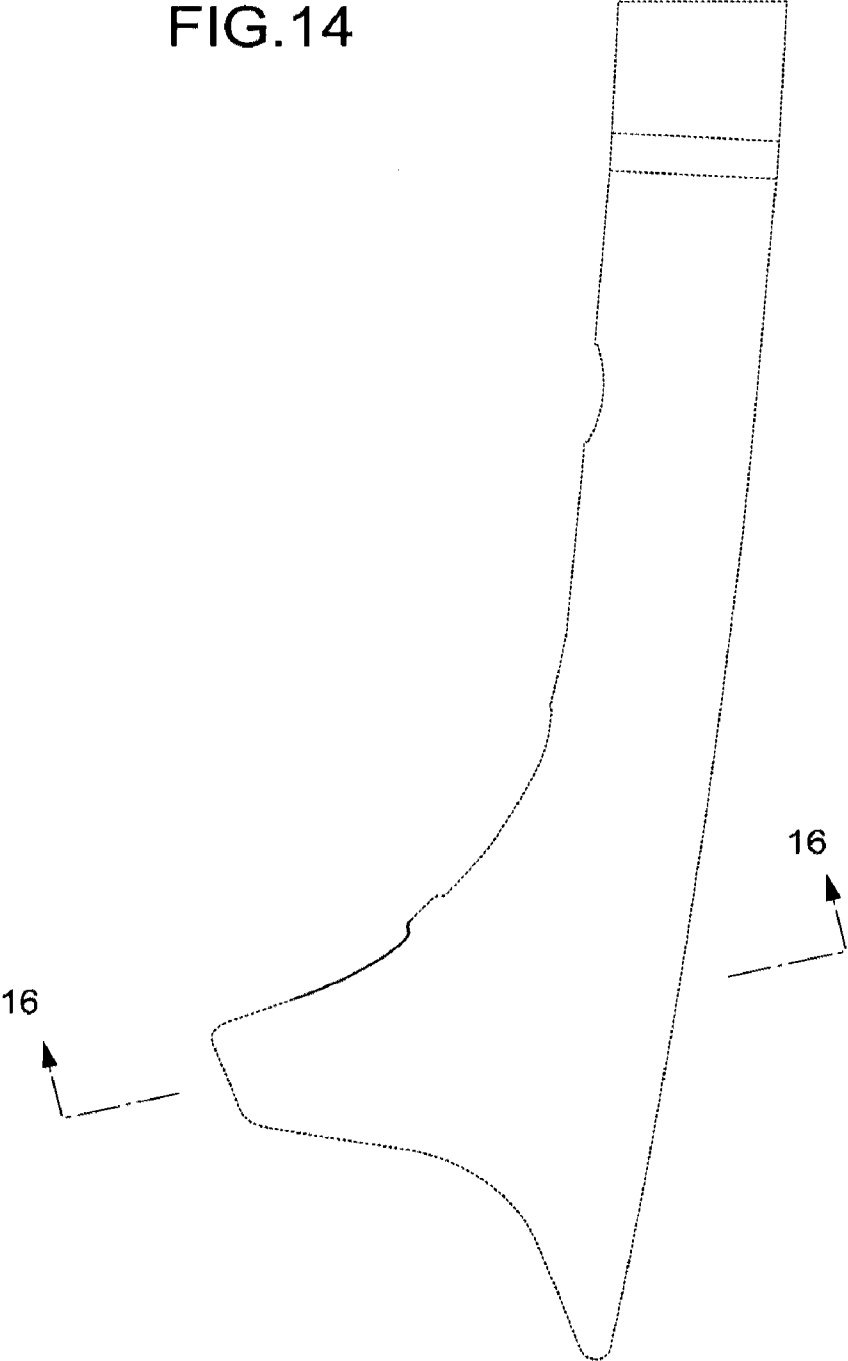


FIG.14



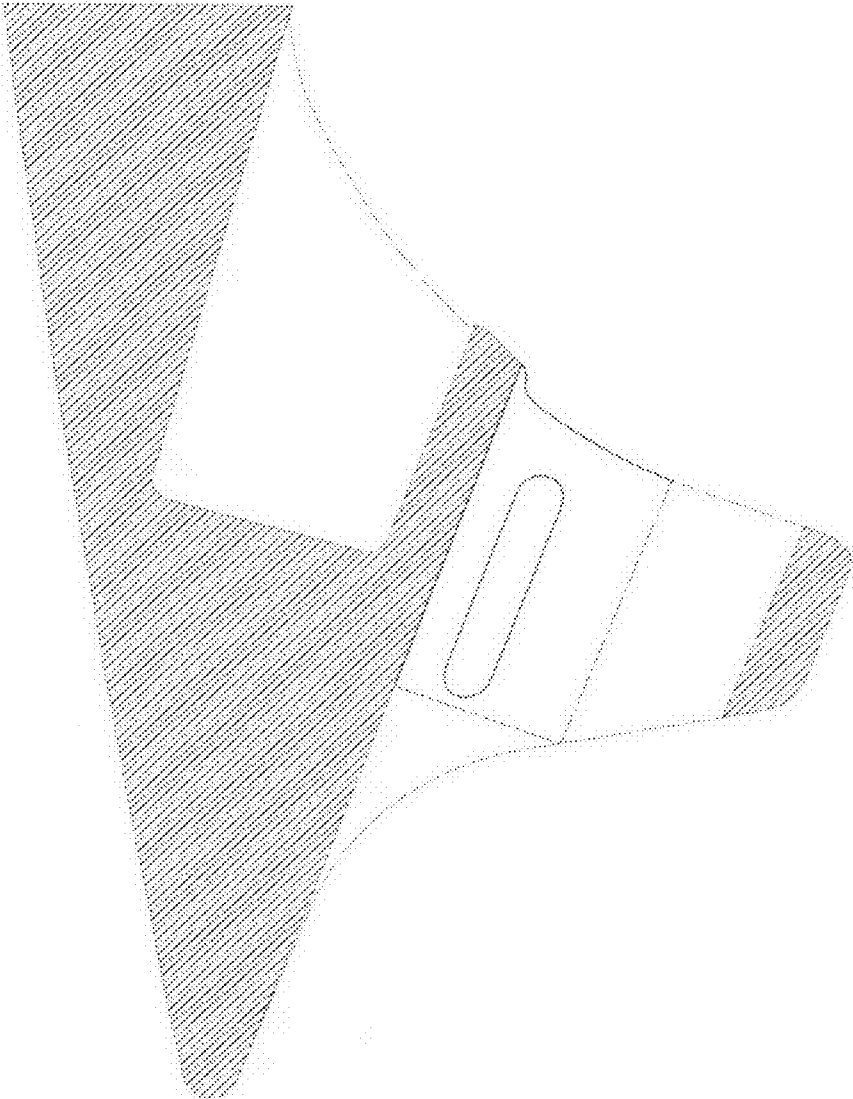


FIG. 15

FIG. 16

