



US00D821998S

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

(10) **Patent No.:** **US D821,998 S**

(45) **Date of Patent:** **** Jul. 3, 2018**

(54) **HEADPHONE**

(57) **CLAIM**

(71) Applicant: **Sony Corporation**, Tokyo (JP)

The ornamental design for a headphone, as shown and described.

(72) Inventors: **Shogo Yashiro**, Kanagawa (JP);
Shunsuke Shiomi, Tokyo (JP);
Takayuki Horikiri, Kanagawa (JP)

DESCRIPTION

(73) Assignee: **SONY CORPORATION**, Tokyo (JP)

FIG. 1 is a front elevational view of a first embodiment of a headphone showing our new design;

(**) Term: **15 Years**

FIG. 2 is an enlarged right side elevational view of a left side ear cup portion thereof showing the driver cover (partially claimed) behind the mesh screen (in broken lines not claimed) along the lines 2-3 and 2'-3' of FIG. 1, wherein the driver cover is seen through the hole of the ear pad, not claimed, and the mesh screen;

(21) Appl. No.: **29/595,532**

FIG. 3 is another enlarged right side elevational view of a left side ear cup portion thereof showing the driver cover (partially claimed) along lines 2-3 and 2'-3' of FIG. 1, wherein the mesh screen portion of FIG. 2 is removed;

(22) Filed: **Feb. 28, 2017**

FIG. 4 is an enlarged front elevational view of a dome shaped driver cover of the headphone of the embodiment of FIG. 1.

(30) **Foreign Application Priority Data**

Aug. 30, 2016 (CN) 2016 3 0444876

Aug. 30, 2016 (JP) D2016-018566

(Continued)

FIG. 5 is an enlarged partial cross sectional view of the left side ear cup portion thereof cut along the line 5-5 of FIG. 2; and

(51) **LOC (11) Cl.** **14-01**

(52) **U.S. Cl.**

USPC **D14/205; D14/219**

(58) **Field of Classification Search**

USPC D14/205, 219, 206, 204, 210, 215, 217,
D14/221, 222; D13/162, 184, 199;

(Continued)

FIG. 6 is a further enlarged partial cross sectional view of the left side ear cup portion thereof cut along the lines 6-6 and 6'-6' of FIG. 5.

FIG. 7 is a front elevational view of a second embodiment of a headphone showing our new design;

(56) **References Cited**

U.S. PATENT DOCUMENTS

1,080,953 A * 12/1913 Catucci H04R 7/14
181/164

1,135,451 A * 4/1915 Heath F04D 29/326
416/189

(Continued)

FIG. 8 is an enlarged right side elevational view of a left side ear cup portion thereof showing the driver cover (partially claimed) along the lines 8-8 and 8'-8' of FIG. 7;

FIG. 9 is an enlarged front elevational view of a dome shaped driver cover of the headphone of the embodiment of FIG. 7.

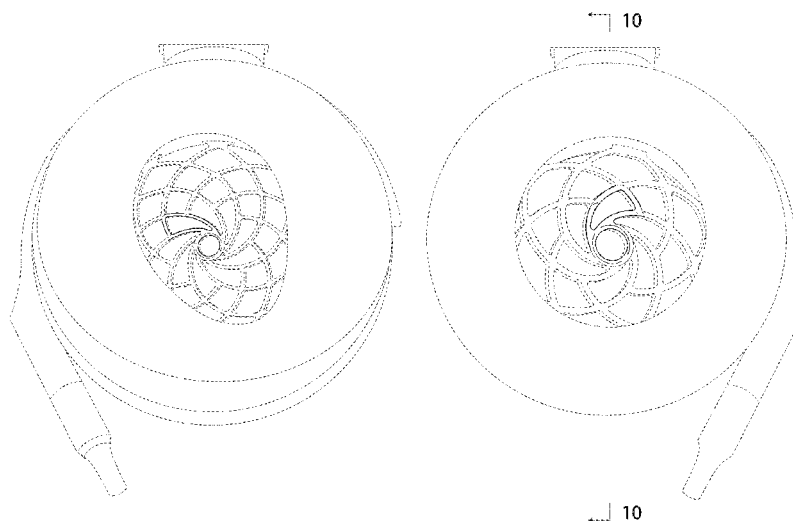
FIG. 10 is an enlarged partial cross sectional view of the left side ear cup portion thereof cut along the line 10-10 of FIG. 8; and,

FIG. 11 is a further enlarged partial cross sectional view of the left side ear cup portion thereof cut along the lines 11-11 and 11'-11' of FIG. 10.

Primary Examiner — Paula Allen Greene

(74) *Attorney, Agent, or Firm* — Michael Best and Friedrich LLP

1 Claim, 10 Drawing Sheets



US D821,998 S

(30) Foreign Application Priority Data

Aug. 30, 2016 (JP) D2016-018567
 Aug. 30, 2016 (JP) D2016-018568
 Aug. 30, 2016 (JP) D2016-018569

(58) Field of Classification Search

USPC D23/365, 412, 328, 370, 393, 388;
 D5/47, 54; D24/189; D26/122; D8/382;
 D25/153; 181/128, 129, 130, 135, 155;
 381/404, 398, 380, 381; 52/670;
 D29/112; 2/209

CPC H04R 25/00; H04R 1/1016; H04R 1/10;
 H04R 5/033; H04R 5/0335; H04R 1/02;
 H04R 1/24; H04R 5/00; H04R 1/105

See application file for complete search history.

(56) References Cited

U.S. PATENT DOCUMENTS

1,873,062 A * 8/1932 Sollie H04R 9/04
 181/172
 1,882,974 A * 10/1932 Schlenker H04R 7/20
 181/168
 1,888,442 A * 11/1932 Abrahams H04R 1/30
 181/155
 1,978,920 A * 10/1934 Van Deventer H03J 1/04
 181/141
 1,990,420 A * 2/1935 Staff A42B 5/00
 2/207
 2,175,849 A * 10/1939 Oliner A45D 8/40
 132/274
 D185,505 S * 6/1959 Lowell D14/219
 2,957,308 A * 10/1960 Long F02C 7/04
 138/41
 3,076,892 A * 2/1963 Stiffel F21V 11/06
 362/232
 3,276,538 A * 10/1966 Guyton H04R 1/30
 181/141

3,294,242 A * 12/1966 Notari B01D 25/26
 210/347
 3,327,708 A * 6/1967 Sokolowski A61F 13/15642
 156/290
 D209,249 S * 11/1967 Milletello D23/412
 3,362,501 A * 1/1968 Lenahan G01N 29/28
 181/141
 3,694,867 A * 10/1972 Stumpf A44B 18/0034
 24/448
 D227,677 S * 7/1973 Koch D14/219
 D257,364 S * 10/1980 Molenaar D21/458
 D335,529 S * 5/1993 San-Jou D23/324
 D432,542 S * 10/2000 Bath D14/441
 D451,595 S * 12/2001 Chen D23/382
 6,377,145 B1 * 4/2002 Kumagai H04R 7/16
 310/29
 D457,512 S 5/2002 Yoneda
 D457,874 S 5/2002 Yoneda
 6,625,819 B1 * 9/2003 Tsai A61F 11/14
 181/129
 6,772,853 B2 * 8/2004 Yang H04R 1/1066
 181/129
 D506,551 S * 6/2005 Booth D24/162
 D508,483 S * 8/2005 Suzuki D14/205
 D531,952 S * 11/2006 Sands D12/211
 D555,777 S * 11/2007 Avelsdson D23/365
 RE40,318 E 5/2008 Yoneda
 D575,875 S * 8/2008 Robinson D24/206
 D578,202 S * 10/2008 Borges D23/412
 D609,328 S * 2/2010 Mair D23/388
 D635,958 S * 4/2011 Ando D14/205
 D654,920 S * 2/2012 Wang D14/441
 D695,261 S 12/2013 Katsumata
 D783,572 S * 4/2017 Matthews D14/205
 D785,593 S * 5/2017 Nakagawa D14/205
 2012/0082324 A1 * 4/2012 Choi H04R 1/1091
 381/151
 2014/0030104 A1 * 1/2014 Lee F04D 19/007
 416/223 R

* cited by examiner

FIG.1

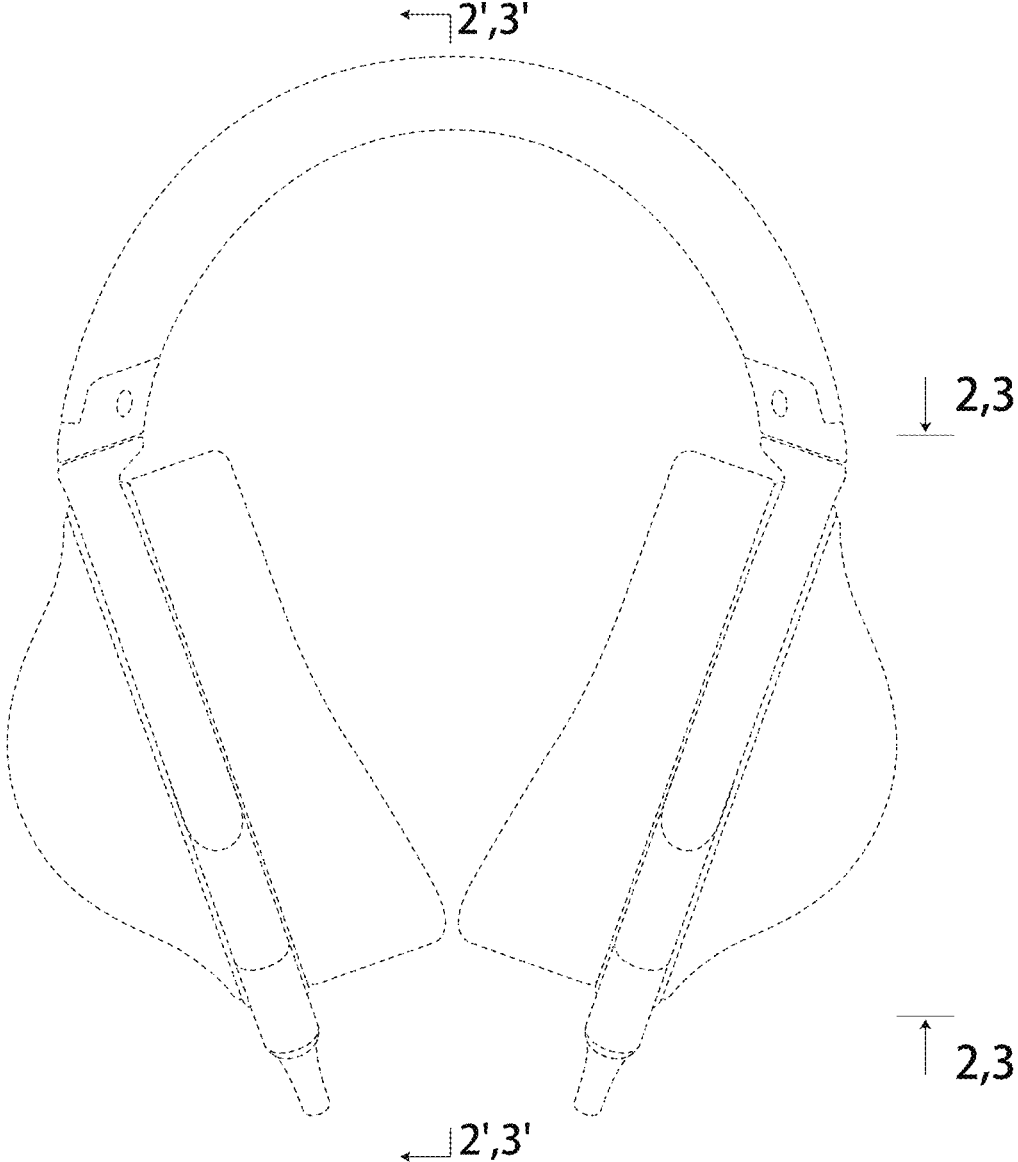


FIG.2

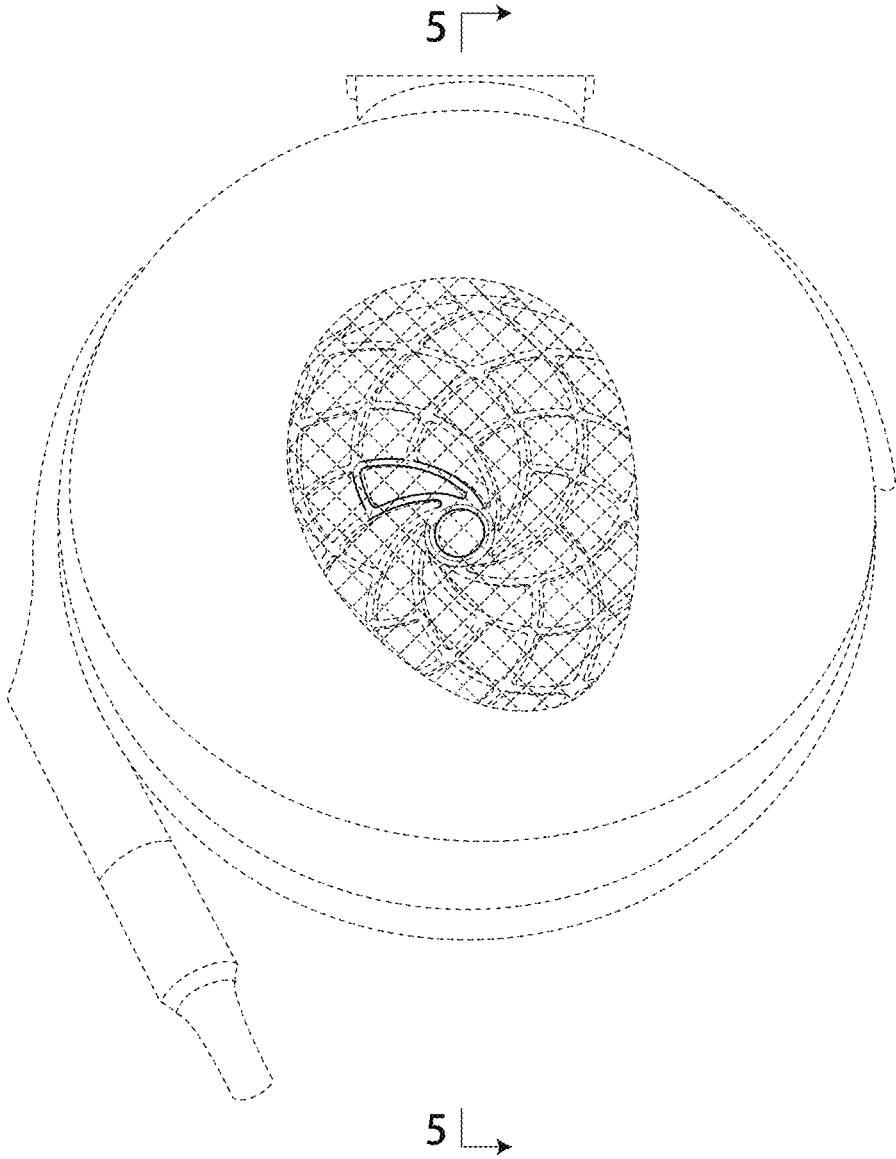


FIG.3

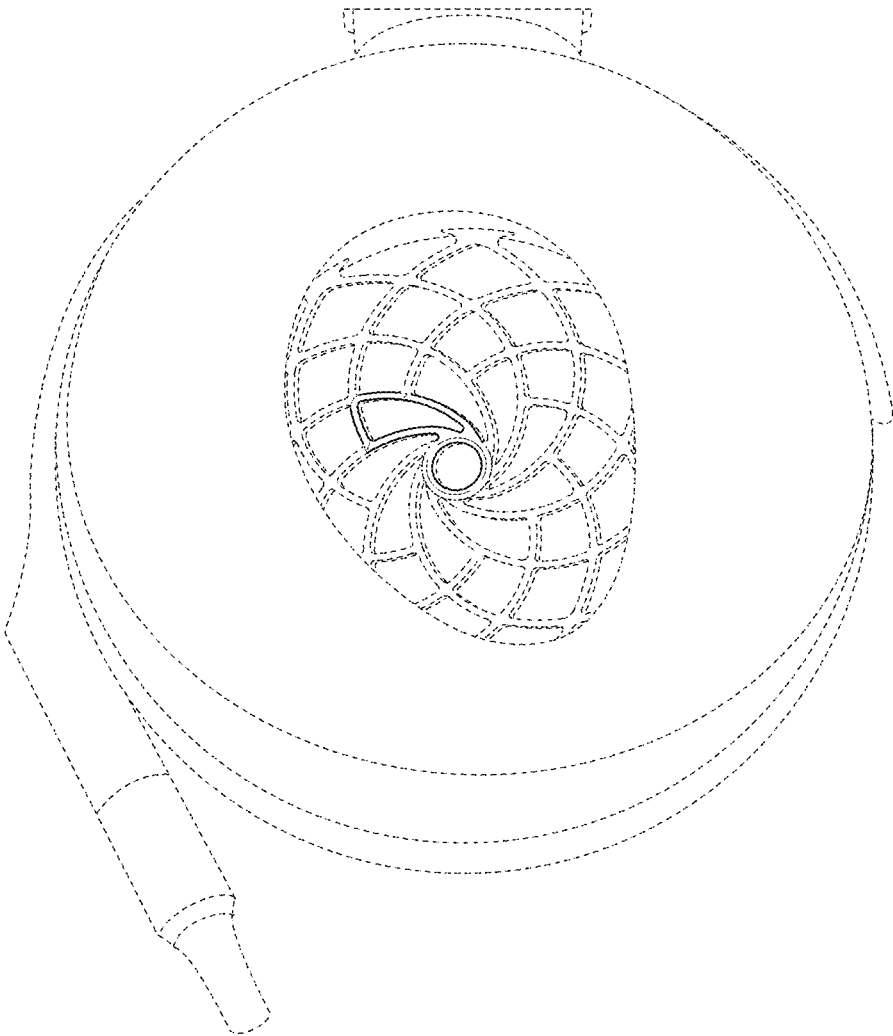


FIG.4

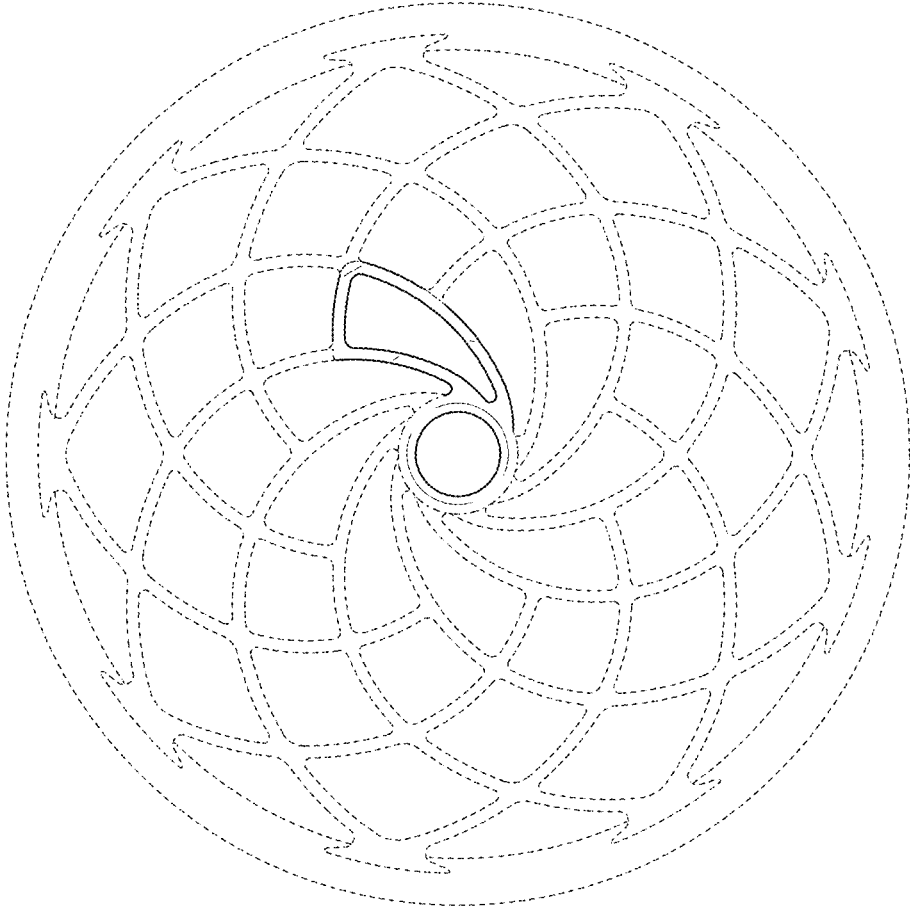


FIG.5

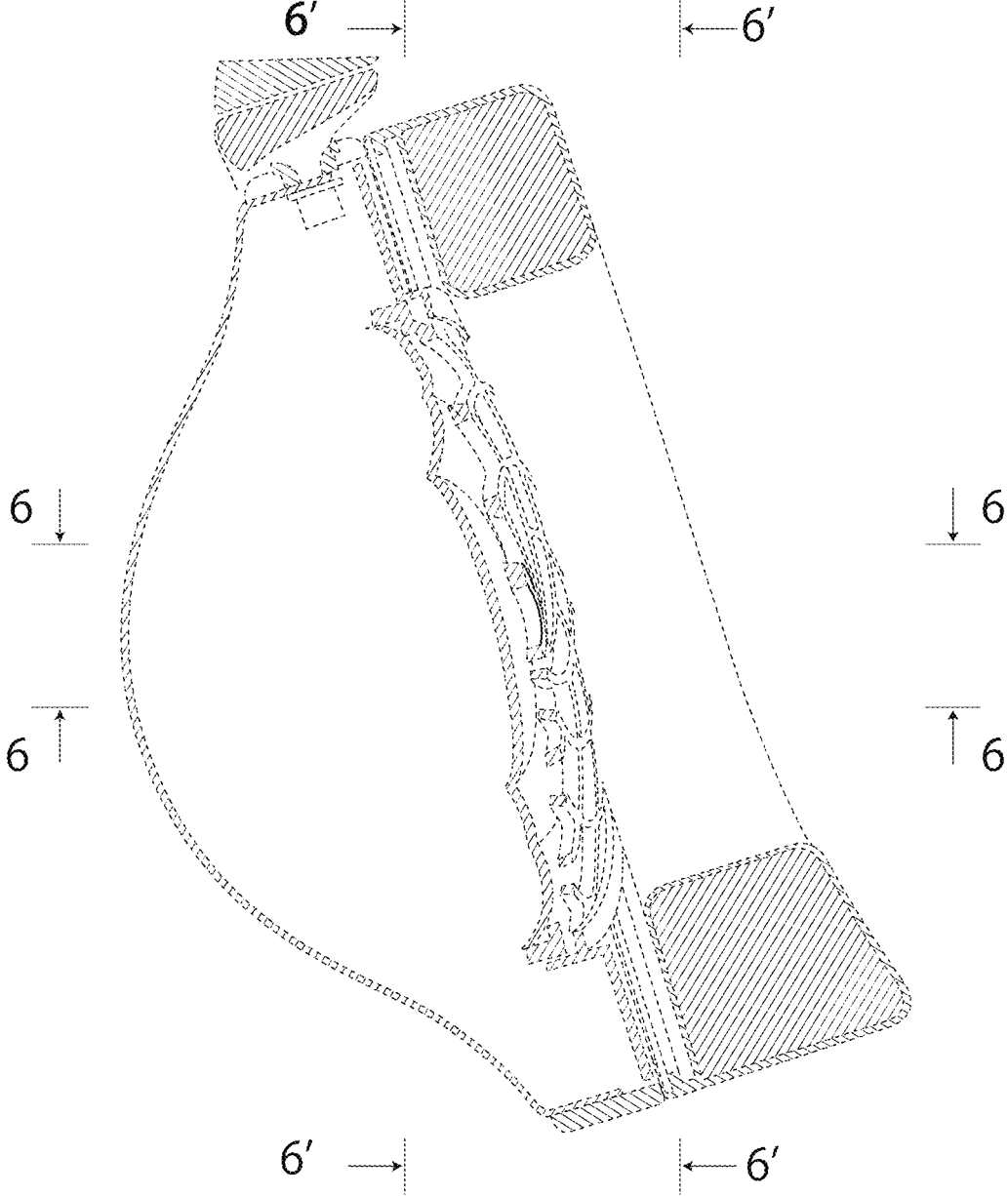


FIG.6

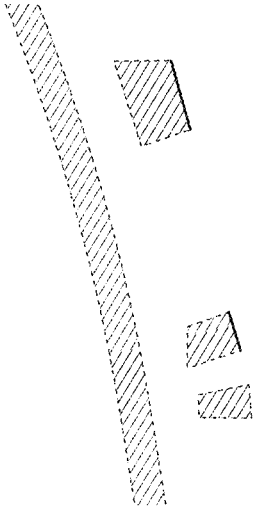


FIG.7

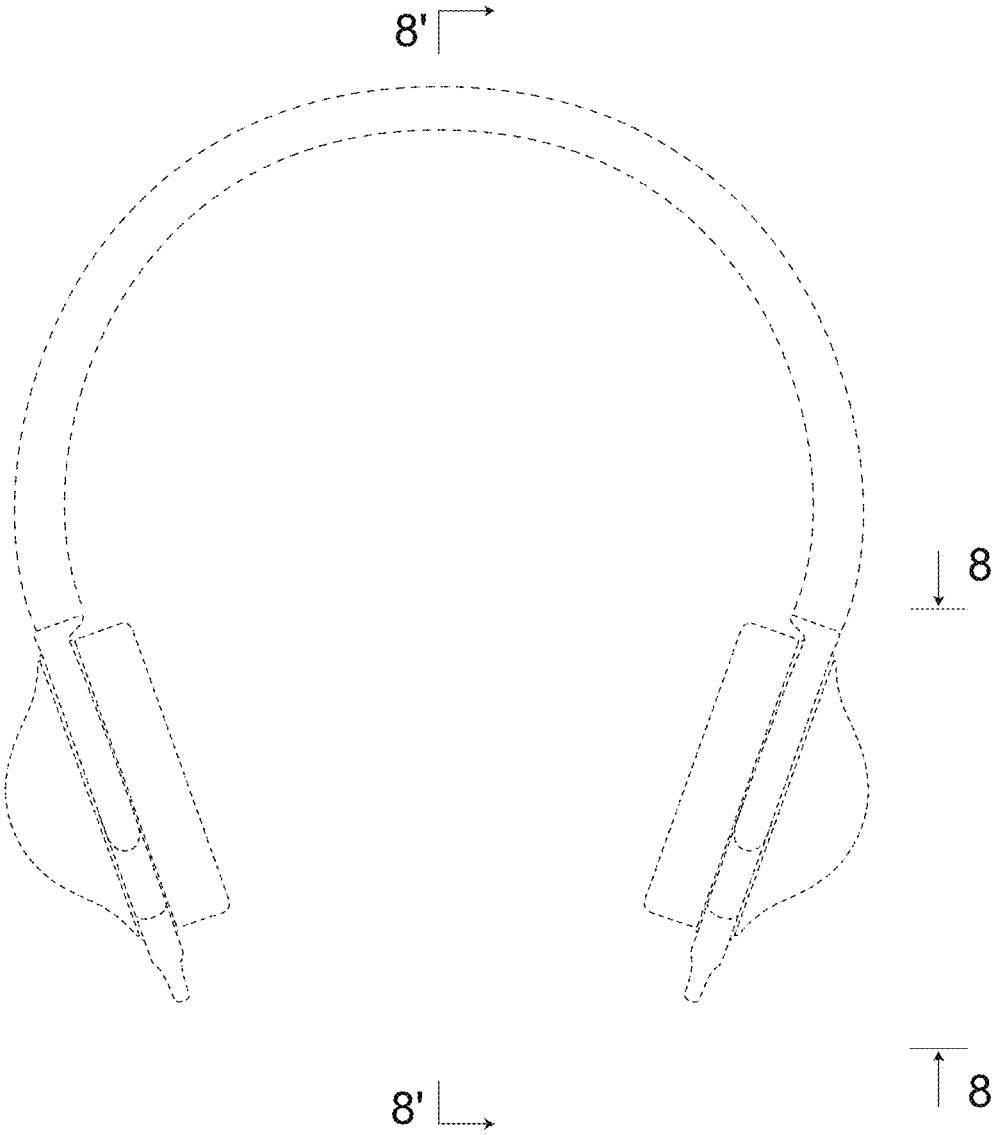
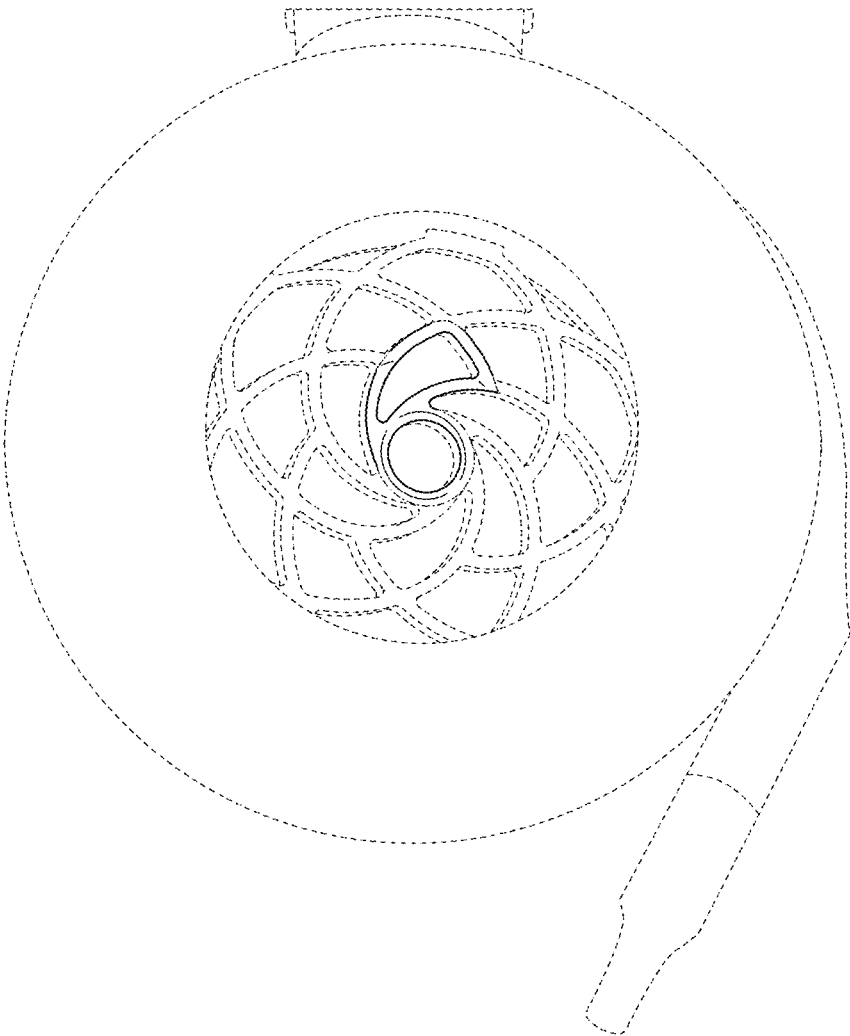


FIG.8

← 10



← 10

FIG.9

