



US00D903086S

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

(10) **Patent No.:** **US D903,086 S**
(45) **Date of Patent:** **** Nov. 24, 2020**

(54) **NECK FAN**

(71) Applicant: **Shenzhen Lanhe Technologies Co., Ltd.**, Shenzhen (CN)

(72) Inventors: **Kai Liu**, Guangdong (CN); **Xunhuan Wu**, Guangdong (CN)

(73) Assignee: **Shenzhen Lanhe Technologies Co., Ltd.**, Shenzhen (CN)

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

(21) Appl. No.: **29/735,572**

(22) Filed: **May 22, 2020**

(30) **Foreign Application Priority Data**

Nov. 25, 2019 (CN) 2019 3 0651468
Jan. 18, 2020 (CN) 2020 3 0037447

(51) **LOC (12) Cl.** **23-04**

(52) **U.S. Cl.**
USPC **D23/370**

(58) **Field of Classification Search**
USPC D26/59; D23/370–385, 411–414, 355,
D23/351, 352, 349
CPC F04D 25/088; F04D 29/38; F21V 21/03;
B63H 1/16
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D345,599 S * 3/1994 Williams, Jr. D23/382
D372,772 S * 8/1996 Dubois D23/332
D384,144 S * 9/1997 DuBois D23/332
D387,150 S * 12/1997 Coonahan D23/332

D387,154 S * 12/1997 Chiang D23/332
5,802,865 A 9/1998 Strauss D23/351
D442,269 S * 5/2001 Pinchuk D23/351
D455,481 S * 4/2002 Christianson D23/351
D457,945 S * 5/2002 Pinchuk D23/351
D464,420 S * 10/2002 Tolar D23/382
D857,876 S * 8/2019 Ye D23/411
D862,679 S * 10/2019 Zhou D23/380
D884,201 S 5/2020 Fang
2020/0187574 A1 * 6/2020 Te Hsiang F04D 25/0673

FOREIGN PATENT DOCUMENTS

EM 0066806820002 S 8/2019
EM 0069061290001 S 9/2019
EM 0070216620001 S 11/2019
KR 301027664 S 10/2019

* cited by examiner

Primary Examiner — Janice Hallmark

(74) *Attorney, Agent, or Firm* — Andrew C. Cheng

(57) **CLAIM**

We claim the ornamental design for a neck fan, as shown and described.

DESCRIPTION

FIG. 1 is a perspective view of a neck fan according to an embodiment.

FIG. 2 is a front view of the neck fan of FIG. 1.

FIG. 3 is a rear view of the neck fan of FIG. 1.

FIG. 4 is a left side view of the neck fan of FIG. 1.

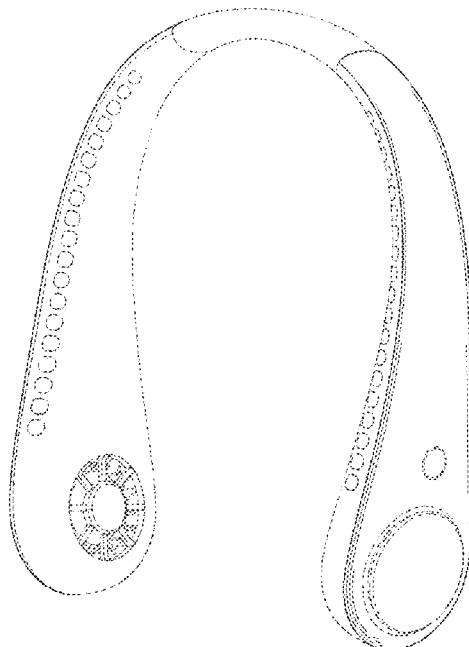
FIG. 5 is a right side view of the neck fan of FIG. 1.

FIG. 6 is a top view of the neck fan of FIG. 1; and,

FIG. 7 is a bottom view of the neck fan of FIG. 1.

The broken line showing of the environment is for illustrative purposes only and forms no part of the claimed design.

1 Claim, 7 Drawing Sheets



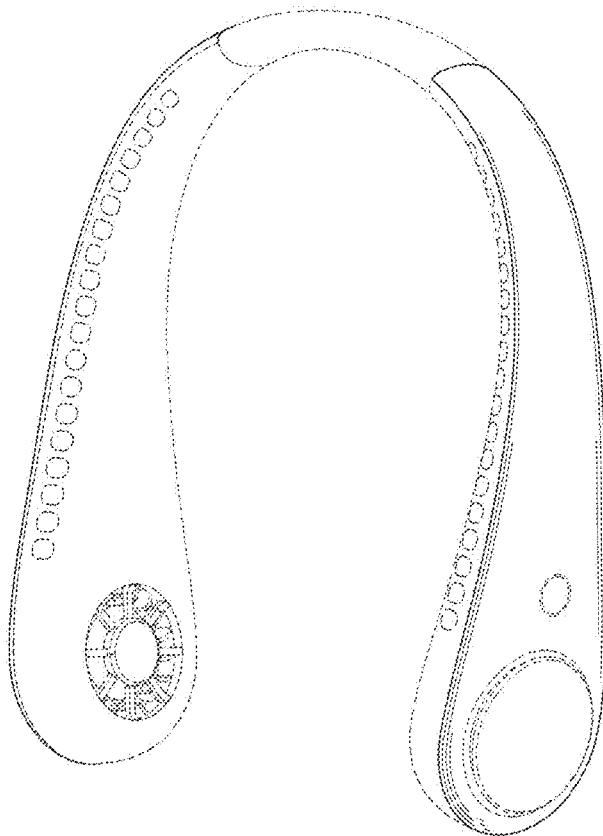


FIG.1

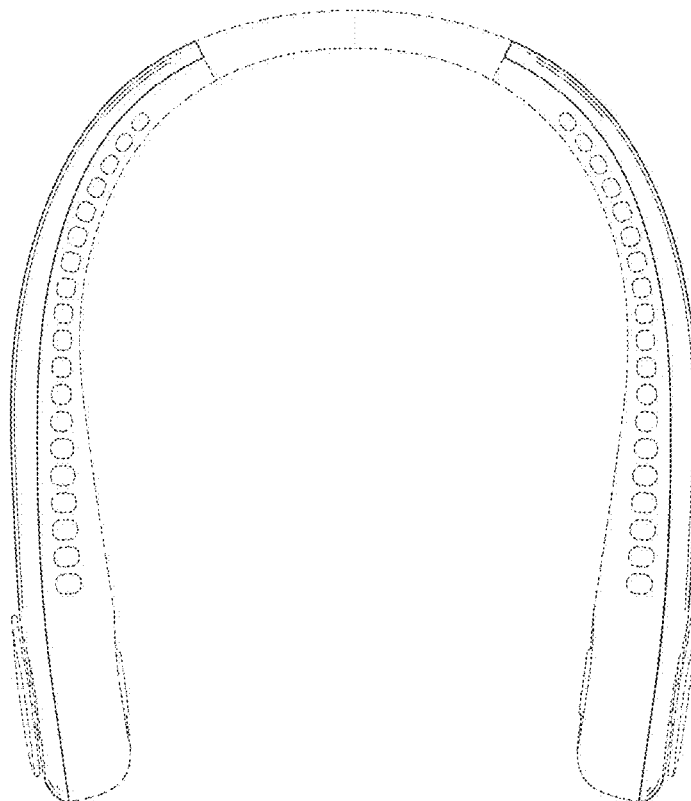


FIG.2

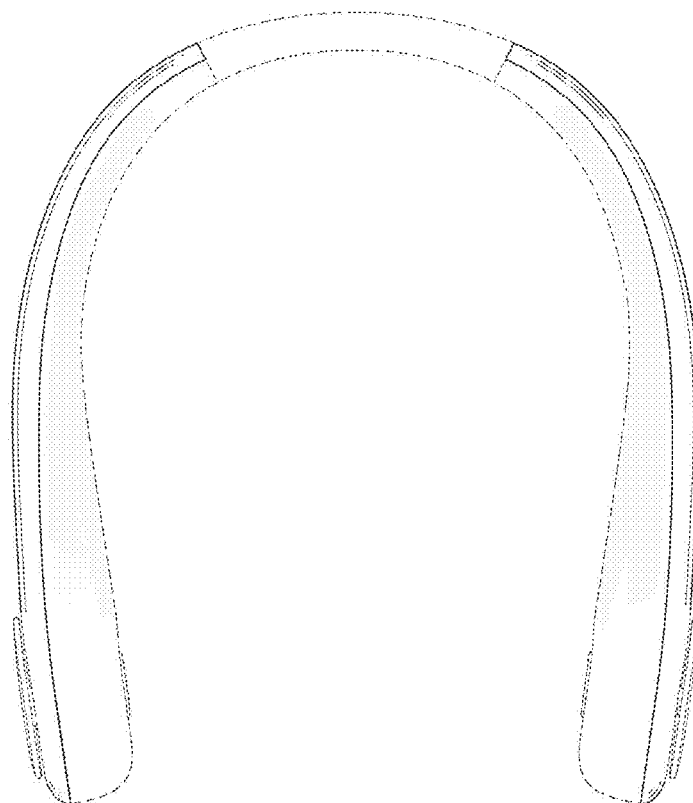


FIG.3

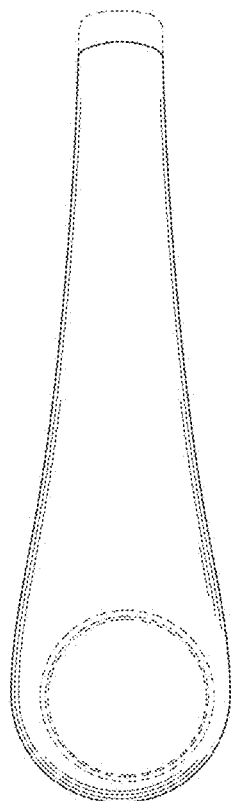


FIG.4

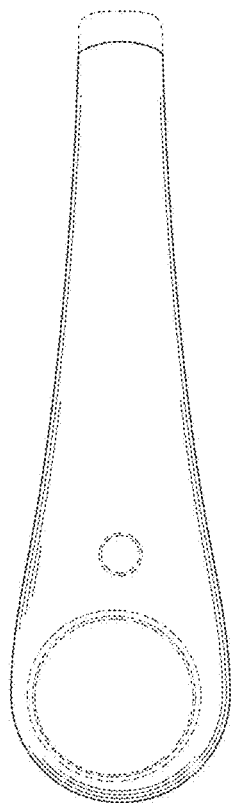


FIG.5

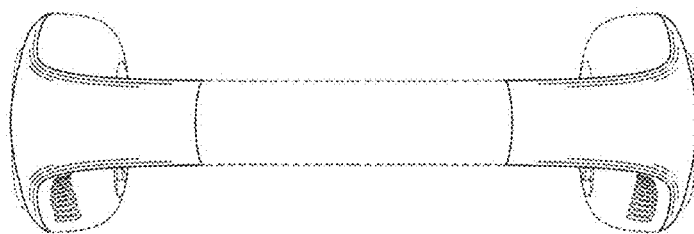


FIG.6

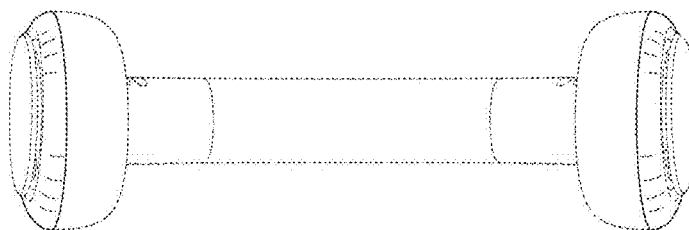


FIG.7