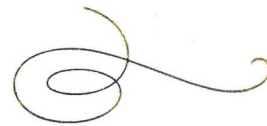
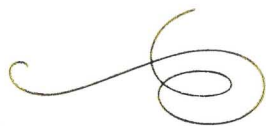


United
States
of
America



To Promote the Progress

of Science and Useful Arts

The Director

of the United States Patent and Trademark Office has received an application for a patent for a new, original, and ornamental design for an article of manufacture. The title and description of the design are enclosed. The requirements of law have been complied with, and it has been determined that a patent on the design shall be granted under the law.

Therefore, this United States

Patent

grants to the person(s) having title to this patent the right to exclude others from making, using, offering for sale, or selling the design throughout the United States of America or importing the design into the United States of America for the term set forth by law.

Andrew Lawrence

DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE



US00D893460S

(12) **United States Design Patent**
Chen

(10) **Patent No.:** **US D893,460 S**

(45) **Date of Patent:** **** Aug. 18, 2020**

(54) **VACUUM TUBE SPEAKER**

(71) Applicant: **ECHOWELL ELECTRONIC CO., LTD.**, New Taipei (TW)

(72) Inventor: **Hsi-Hsien Chen**, Taichung (TW)

(73) Assignee: **ECHOWELL ELECTRONIC CO., LTD.**, New Taipei (TW)

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

(21) Appl. No.: **29/643,724**

(22) Filed: **Apr. 11, 2018**

(51) **LOC (12) Cl.** **14-01**

(52) **U.S. Cl.**
USPC **D14/221**

(58) **Field of Classification Search**

USPC ... D14/204, 209, 209.1, 210, 211, 217, 221,
D14/222, 224, 137, 229, 251, 168, 149,
D14/253, 466

CPC G10G 5/00; H04R 1/1091; H04R 1/1075;
F16M 11/22; A47F 2007/0085; A47F
7/146; A47F 7/00; A47F 7/0028; A47F
7/0035; A47F 7/0042; A47F 5/04; A47F
5/05; B65D 85/42; A47G 25/00; A47G
25/10; A47J 47/16

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

2,497,747 A * 2/1950 Valdettaro H03J 5/28
334/57
2,617,956 A * 11/1952 Hamvas H01J 25/56
313/158
D220,544 S * 4/1971 Unger D14/188
D371,787 S * 7/1996 Sohn D14/188
D392,640 S * 3/1998 Tully D14/188
D525,613 S * 7/2006 Masui D14/188
D574,362 S * 8/2008 Zhong D14/168
D598,004 S * 8/2009 Lam D14/188
D629,383 S * 12/2010 Quilter D14/188

D717,269 S * 11/2014 Kim D14/188
D813,189 S * 3/2018 Lundgard D14/188
D830,328 S * 10/2018 Nugent D14/204
2019/0318898 A1 * 10/2019 Chen H03F 1/30

FOREIGN PATENT DOCUMENTS

JP 2019009738 A * 1/2019

OTHER PUBLICATIONS

Taiwan Echowell audio landed in Japan in the fall, announced Jun. 29, 2019 [online], retrieved Nov. 1, 2019, retrieved from internet, <https://www.phileweb.com/news/d-av/201906/29/47802.html>. *

* cited by examiner

Primary Examiner — Barbara Fox

Assistant Examiner — Messina L Smith

(74) *Attorney, Agent, or Firm* — Locke Lord LLP; Tim Tingkang Xia, Esq.

(57) **CLAIM**

The ornamental design for a vacuum tube speaker, as shown and described.

DESCRIPTION

FIG. 1 is a perspective view of a vacuum tube speaker showing my new design;
FIG. 2 is a front view thereof;
FIG. 3 is a rear view thereof;
FIG. 4 is a left side view thereof;
FIG. 5 is a right side view thereof;
FIG. 6 is a top view thereof;
FIG. 7 is a bottom view thereof; and,
FIG. 8 is an exploded perspective view thereof.

The broken lines shown in the drawings depict portions of the vacuum tube speaker that form no part of the claimed design. The lines shown inside the small circles in FIG. 3 depict portions of the vacuum tube speaker that form no part of the claimed design.

1 Claim, 8 Drawing Sheets

