

No. 78,493.

PATENTED JUNE 2, 1868.

T. H. STILWELL.
EAR TRUMPET.

Fig. 1

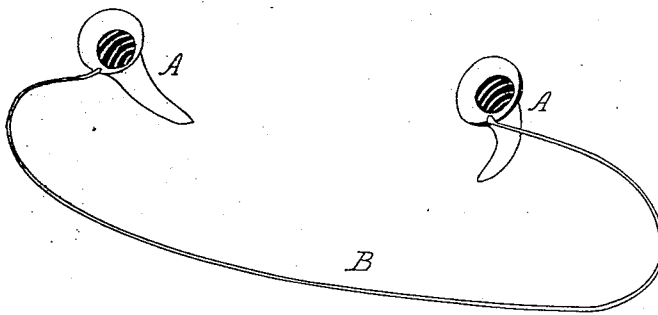
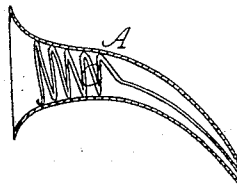


Fig. 2.



Witnesses

Thos. Froese
J. A. Service

Inventor.

T. H. Stilwell
Per Munnell &
Attorneys

United States Patent Office.

THOMAS H. STILWELL, M. D., OF NEW YORK, N. Y.

Letters Patent No. 78,493, dated June 2, 1868; antedated May 18, 1868.

IMPROVEMENT IN EAR-TRUMPETS.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, Dr. THOMAS H. STILWELL, of New York, in the county and State of New York, have invented a new and improved Ear-Trumpet; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification.

Figure 1 represents a perspective view of my invention.

Figure 2 is a detail longitudinal section of the same.

Similar letters of reference indicate corresponding parts.

This invention relates to a new device, which is to be inserted in the ear to support a diseased drum, or to invigorate paralyzed nerves.

This invention consists in the use of two small trumpet-shaped tubes, which are just large enough to be inserted into the *meatus externus*, so as to reach to the drum or *membrana tympani*, while they scarcely project from the outside of the ear.

One tube is inserted in each ear, to support the drum, and both tubes are connected by means of a copper or other wire, the object of which is to establish an electrical current between the tubes, so as to invigorate paralyzed or weakened auditory nerves.

The invention also consists in the use of a coiled wire inserted in each tube, to increase the vibrations of the air, and to thereby make the sounds appear louder to the patient.

A A represent two trumpet-shaped tubes, bent so as to fit the *meati externi*, into which they are to be inserted, and projecting but very little beyond the outer ear. They are connected by means of a wire, B, which is laid over the back of the head. Within each tube is arranged a vibrating spiral wire, C, as shown in fig. 2.

The instrument supports the diseased drum, and performs the duty of the same, relieving it, and giving it an opportunity to rest and to recuperate.

By means of the wire a current is established between the nerves of the ear; whereby the nerves may be "charged," so that those which have lost their power may be restored to life, and their hearing-property may be re-established.

I claim as new, and desire to secure by Letters Patent—

The tubular trumpets A A, connected by means of a wire rod, B, and having vibrating wires C arranged within them, substantially as and for the purpose specified.

THOS. H. STILWELL, M. D.

Witnesses:

ALEX. F. ROBERTS,
J. W. B. COVINGTON.