

(No Model.)

W. A. DUNLAP.
HORN.

No. 586,357.

Patented July 13, 1897.

FIG. 1.

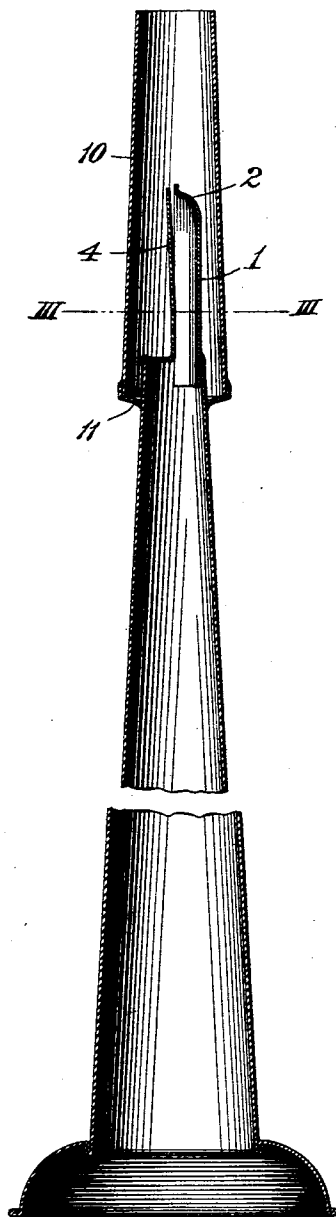


FIG. 2.

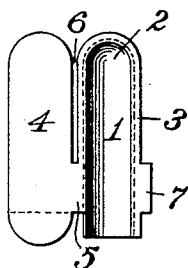


FIG. 4.

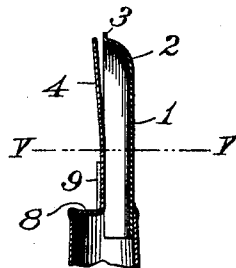


FIG. 3.

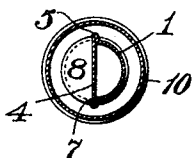
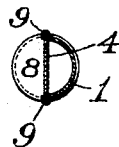


FIG. 5.



WITNESSES:

Chas. F. Miller.
A. E. Gatter.

INVENTOR.

William A. Dunlap
by Saml B. Wolcott Att'y.

UNITED STATES PATENT OFFICE.

WILLIAM A. DUNLAP, OF PITTSBURG, PENNSYLVANIA.

HORN.

SPECIFICATION forming part of Letters Patent No. 586,357, dated July 13, 1897.

Application filed October 26, 1896. Serial No. 610,078. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM A. DUNLAP, a citizen of the United States, residing at Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented or discovered certain new and useful Improvements in Horns, of which improvements the following is a specification.

In an application, Serial No. 601,836, filed August 6, 1896, I have described and claimed certain improvements in the construction of horns, &c., said improvements consisting, generally stated, in certain novel features in the construction of the reed-frame and stopper, whereby the latter and the reed are firmly secured to the reed-frame in such manner as to avoid all liability of the reed becoming detached by reason of its vibrations.

The invention described herein relates to certain further or additional improvements in horns, &c., which will be hereinafter more fully described and claimed.

In the accompanying drawings, forming a part of this specification, Figure 1 is a sectional elevation of a horn having my improvement applied thereto. Fig. 2 is a plan view of a blank for the reed-frame, reed, and stopper. Fig. 3 is a transverse section on the plane indicated by the line III, Fig. 1. Fig. 4 is a sectional view illustrating a modification of the structure shown in Fig. 1; and Fig. 5 is a transverse section, the plane of section being indicated by the line V V, Fig. 4.

In the practice of my invention the reed frame or holder 1 is formed by stamping or other suitable means from a piece of metal, as tin. The part 1 is preferably made in the form of a semicylinder having one end closed by a wall 2, preferably rounded or curved, as shown. The edges of the frame 1 are preferably formed with an outwardly-projecting flange 3, adapted to support the edges of the reed 4, which may be formed of any suitable metal, but preferably of thin sheet-brass. In the construction shown in Figs. 1, 2, and 3 one edge of the reed is connected with one edge of the reed-frame 1 by a web 5, integral with the reed and frame. In this form of my improvement the reed and frame are formed

simultaneously from a single piece of metal 50 and the reed separated from the frame, except at or near the rear end, by a slit 6. The reed is turned over onto the frame, the web 5 being bent, and the outer edge of the reed is secured to the frame by a wing or lug 7, which is preferably formed integral with the frame and adapted to be bent over onto the edge of the reed. Thus the reed is secured in position on one side by the web 5 and on the opposite side by the wing or lug 7.

As shown in Figs. 1 and 3, the frame with the reed clamped thereon is inserted in the small end of the horn and secured in position by solder or other suitable means. As the reed-frame closes only about half of the opening in the end of the horn provision is made for closing the other portion of the opening by turning up the rear end of the reed along the dotted line in Fig. 2 in the rear of the points where the reed is attached to the frame. The stopper or upturned end 8 of the reed has its edges suitably shaped, so that when the frame is inserted in the opening in the horn it will be closed by the frame and stopper. The latter may be made to fit within the opening or simply bear against the end of the horn.

In lieu of the construction shown in Figs. 1, 2, and 3 the reed and frame may be made independent of each other, in which one of said parts, as the frame, is provided with laterally-projecting wings 9, adapted to be bent so as to clamp the other part, as the reed, in position.

The mouthpiece 10 is attached by solder or otherwise to a ring 11, which is secured by any suitable means to the horn.

I claim herein as my invention—

The combination of a reed-frame, a reed, clamps for securing the reed to the frame and a stopper formed by the upturned end of the reed, substantially as set forth.

In testimony whereof I have hereunto set my hand.

WILLIAM A. DUNLAP.

Witnesses:

DARWIN S. WOLCOTT,
F. E. GAITHER.