

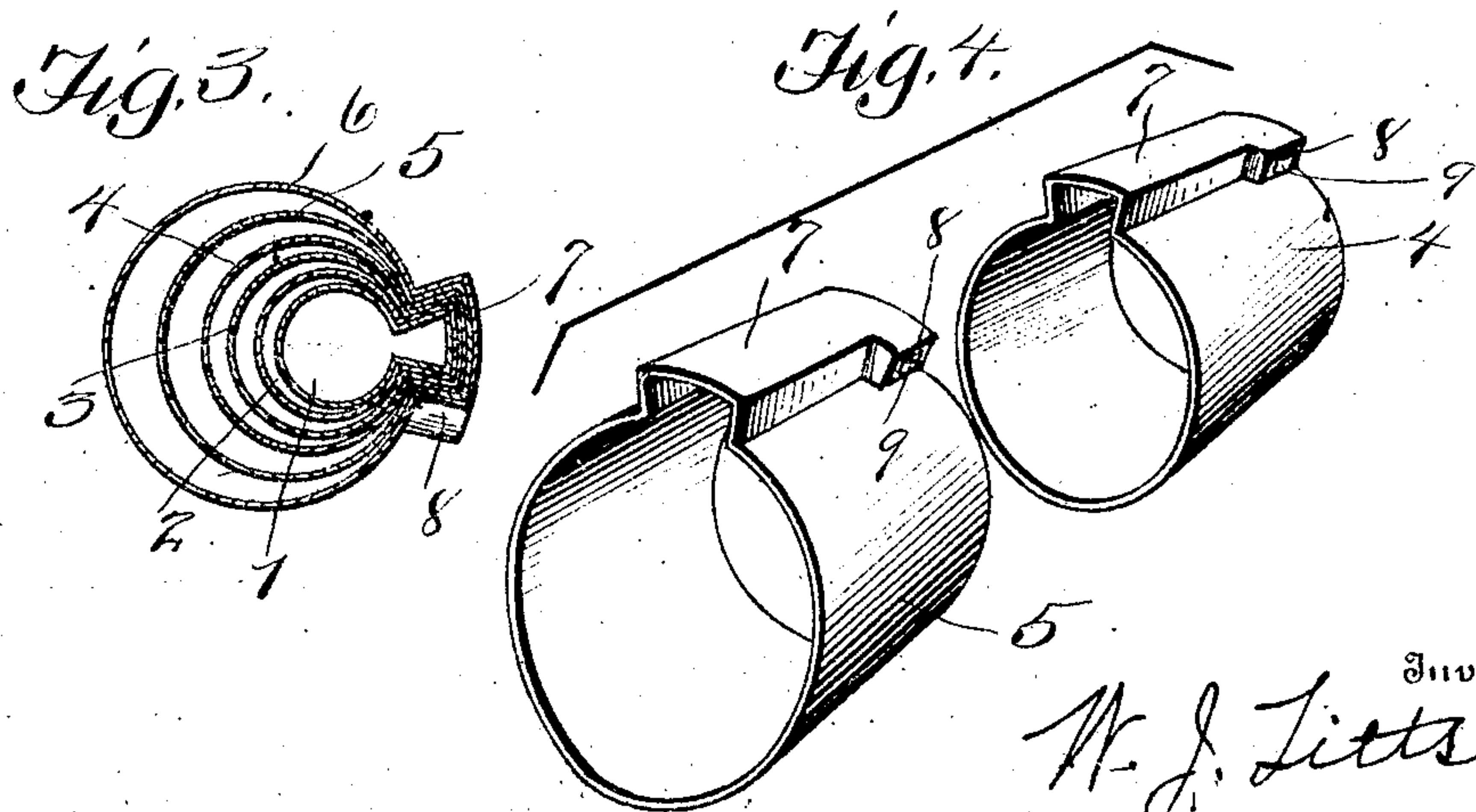
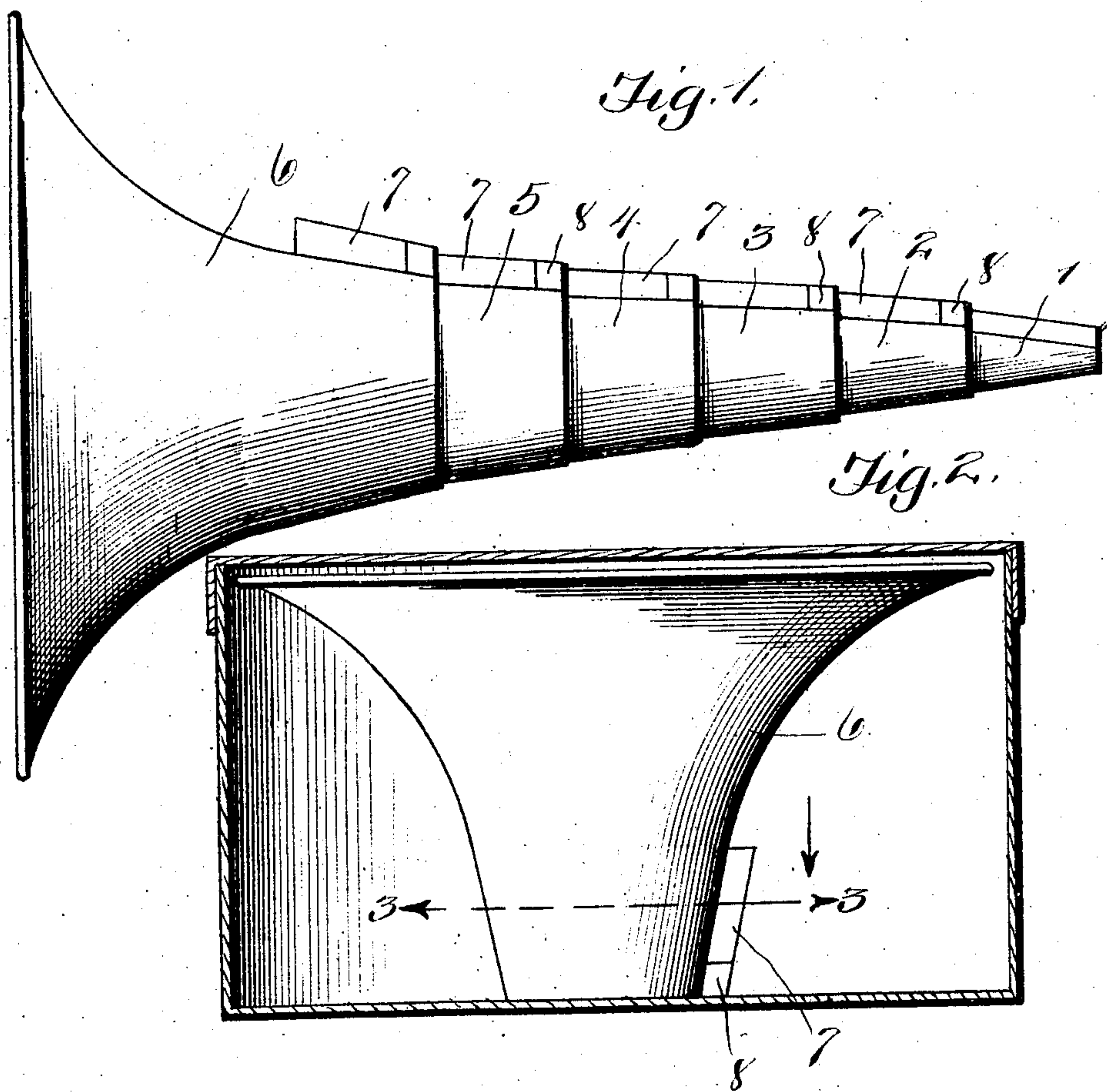
No. 841,795.

PATENTED JAN. 22, 1907.

W. J. LITTS.

DELIVERING HORN FOR TALKING MACHINES.

APPLICATION FILED AUG. 22, 1905.



Witnesses

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334

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# UNITED STATES PATENT OFFICE.

WILLIS J. LITTS, OF JAYNESVILLE, WISCONSIN.

## DELIVERING-HORN FOR TALKING-MACHINES.

No. 841,795.

Specification of Letters Patent.

Patented Jan. 22, 1907.

Application filed August 22, 1905. Serial No. 275,268.

*To all whom it may concern:*

Be it known that I, WILLIS J. LITTS, a citizen of the United States, residing at Jaynesville, in the county of Rock and State of Wisconsin, have invented a new and useful Delivering-Horn for Talking-Machines; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to talking-machines, and more particularly to a collapsible delivering-horn composed of a series of sections and having novel means for holding each section of the series in locked relation when the same is collapsed and packed within a metallic tube for shipment.

The invention also comprises novel means, so that when said delivering-horn is extended and also attached to a talking-machine the same may be held locked in said extended position.

This invention is a very efficient device and may be manufactured with but little expense and sold very reasonably to the trade.

The invention comprises other and further objects, which will be hereinafter more fully described and then specifically defined in the appended claims.

My invention is illustrated in the accompanying drawings, which, with the figures of reference marked thereon, form a part of my application, and in which—

Figure 1 is a side elevation of the improved horn. Fig. 2 is a side view of the horn, showing the same collapsed and packed in a case, the latter being shown in section. Fig. 3 is a sectional view on line 3 3 of Fig. 2. Fig. 4 is a detail view of two sections of the horn, showing the same ready to be assembled.

Referring more specifically to the accompanying drawings by reference-numerals, 1, 2, 3, 4, 5, and 6 designate, respectively, each section which comprise the delivery-horn, each section being provided with a suitable longitudinal dovetailed depression 7, which will act as a tongue or groove for each adjacent section when the same is extended or collapsed. To enable the sections to be locked when the horn is collapsed, the said depressions are each provided at the end thereof with a cammed offset 8, serving as a stop, and having a depression 9, which is adapted to engage a like depression of the ad-

jacent section. This construction is for the purpose of allowing the delivery-horn to be firmly locked when desired.

In Fig. 4 of the drawings has been shown two sections of the horn adapted and ready to be assembled. It is obvious that the large end of the smaller section 4 is larger than the small end of the larger section 5, and it is equally obvious that the offset 8 upon the dovetailed depression of the smaller section would prevent the latter from being connected with the larger section by inserting it at the large end of the latter; but it has been found that the smaller section may be readily compressed and the larger section correspondingly expanded sufficiently to permit them to be assembled by inserting the large end of the smaller section into the small end of the larger section, said sections being usually and preferably constructed of sheet metal sufficiently resilient for the purpose. When all the sections of the horn have been thus assembled, the dovetailed members constitute guides or slides that enable the horn to be readily collapsed, as shown in Figs. 2 and 3, and which being in constant engagement prevent the several sections from rattling or shaking, extension of the horn being prevented by the interlocking depressions 9 until sufficient force is exerted manually to disengage said depressions.

From the foregoing it will be observed that a very efficient and inexpensive device is provided whereby a delivery-horn may be collapsed and packed within a metallic tube for the purpose of shipping the same to any destination.

Of course it is distinctly understood that various changes can be made in the details of construction and combinations of parts other than those illustrated in the accompanying drawings without in any way departing from the spirit and scope of the invention.

What I claim is—

1. A collapsible horn for talking-machines composed of a plurality of sections having interengaging dovetailed depressions whereby said sections are held in close engagement when the horn is collapsed.

2. A collapsible horn for talking-machines composed of a plurality of sections having interengaging dovetailed depressions forming tongue-and-groove connections for adjacent sections; said depressions being provided with terminal offsets forming stops.



3. A collapsible horn for talking-machines  
composed of a plurality of sections having in-  
terengaging dovetailed depressions forming  
tongue-and-groove connections for adjacent  
5 sections; said depressions being provided  
with terminal offsets forming stops, said off-  
sets being provided with depressions or in-  
dentations adapted to interlock and to secure

the sections of the horn against extending  
when collapsed. 10

In testimony whereof I have hereto affixed  
my signature in the presence of two witnesses.

WILLIS J. LITTS.

Witnesses

CORA R. LITTS,

FANNIE M. LITTS.