No. 870,698. PATENTED NOV. 12, 1907.

J. C. STOCKER & D. A. WELSH.

FOLDABLE PHONOGRAPH HORN.

APPLICATION FILED APR. 22, 1907.

Fig. 1.

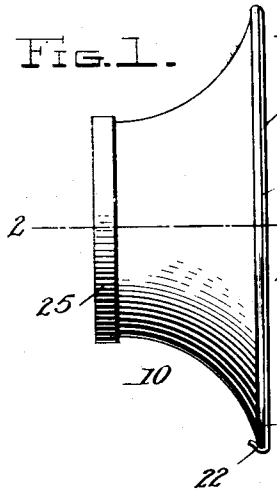


Fig. 2.

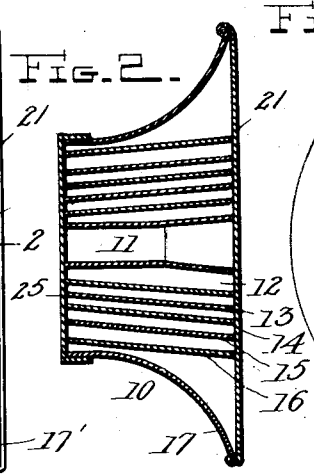


Fig. 3.

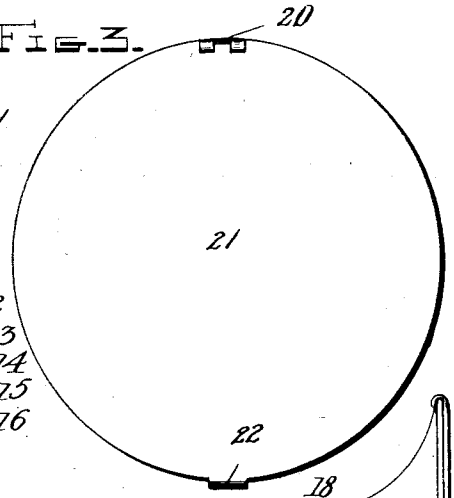


Fig. 4.

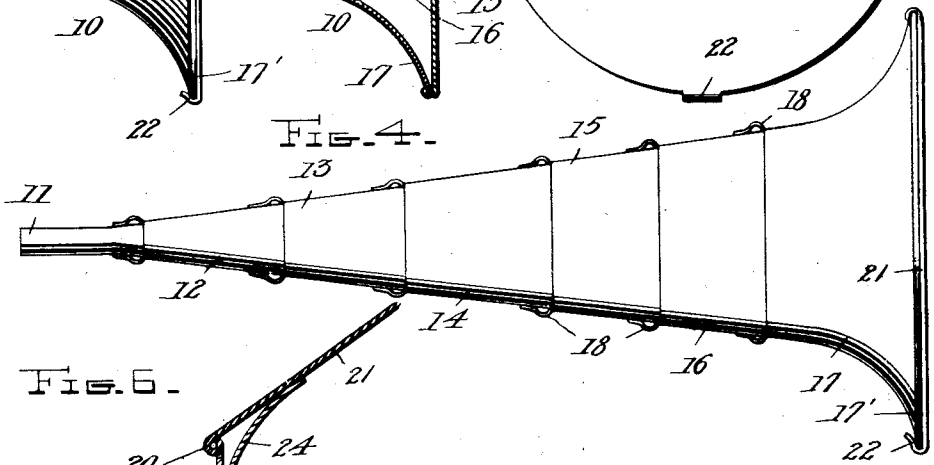


Fig. 6.

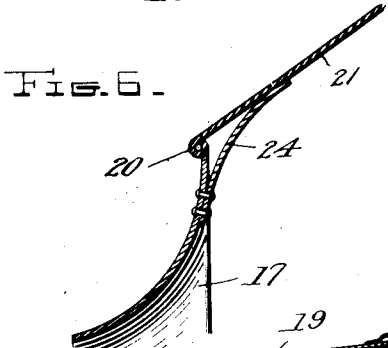


Fig. 5.

Fig. 7.

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FOLDABLE PHONOGRAPH-HORN.

No. 870,698. Specification of Letters Patent. Patented Nov. 12, 1907.

Application filed April 22, 1907. Serial No. 369,497

To all whom it may concern:

Be it known that JULIUS C. STOCKER and DARRELL A. WELSH, citizens of the United States, residing at Pittsburg, in the county of Allegheny and State of Pennsylvania, and Mount Oliver, in the county of Allegheny and State of Pennsylvania, respectively, have invented certain new and useful Improvements in Foldable Phonograph-Horns, of which the following is a specification.

This invention relates to horns and is particularly adaptable for graphophones, phonographs and other musical instruments.

An object of the invention, is to provide a horn, capable of being collapsed, whereby the same may be carried in the pocket at the time of transporting the machine to which the horn is to be attached, or upon shipment or storage of such horn, where it will be seen that a large number may occupy a small floor space.

A further object of the invention is to provide a collapsible horn, made up of telescopic sections, said sections having means whereby they may be securely locked to each other when in use, and to provide means for holding said parts from displacement when the horn is not in use.

Another object is to provide a horn extremely simple in construction, strong, durable and therefore inexpensive to manufacture.

In the drawings: Figure 1 is a side elevation of my horn collapsed. Fig. 2 is a section therethrough on the line 2—2 in Fig. 1. Fig. 3 is an end view. Fig. 4 is a side elevation of the horn extended. Fig. 5 is a vertical longitudinal section therethrough. Fig. 6 is a detail section. Fig. 7 is a modified form.

Referring specifically to the drawings, 10 denotes the horn, which comprises the mouthpiece 11, the sections 12, 13, 14, 15, 16 and the bell 17, all being constructed to slide one within the other.

To securely lock the sections together after being extended ready for use, we provide on each section oppositely disposed, leaf springs 18, which work through slots 19, formed in their respective sections, and are adapted to spring behind the ends of said sections.

When it is desired to collapse the horn, the springs 18 on the mouthpiece 11 are first depressed and pushed within the section 12, the springs 18 on the sections 12 are then depressed and the section 12 held within the section 13; this operation is continued throughout the remaining sections of the horn.

Hinged to the bell 17, as at 20, is a closure 21 which is provided opposite the hinge 20 with a clasp 22 adapted to engage the bead 17′ of the bell 17, when the horn is collapsed. At 23 on the inside of the bell 17, and adjacent the hinge 20 is a spring 24 which serves to hold the closure 21 in an open position after the clasp 22 has been disengaged from the bead 17′.

At 25 is shown a cap which I place on the other end of the section 17, when the horn is collapsed, thus it will be seen that when the sections of the horn are collapsed they are held within the bell 17 by the hinged closure 21 at one end, and the cap 25 at the other.

In the modified form of my invention shown in Fig. 7 springs 24, are stamped out of the sections 11, 12, 13, 14, 15 and 16, and work through a slot 25 therein.

What is claimed is:

1. A collapsible horn comprising telescopic sections, the sections having slots formed therein and located to lie outwardly of the adjacent sections when the horn is extended, springs connected with said sections and engaged in the slots, said springs lying normally in position to engage the adjacent sections to hold the horn in extended position, and being movable through the slots out of said position, a hinged closure for the outer of said sections a spring carried by the outer section and arranged to hold the closure in an elevated position when the sections are extended, and a removable closure for the opposite end of the outer section.

2. A horn comprising a plurality of telescopic sections, including a bell section, a removable closure on one end of bell section, a hinged closure on the other end of said bell section, a spring carried by said section and bearing against said closure to hold the closure in an elevated position, and means for holding the closure in operative position.

3. In a collapsible horn, the combination with telescopic sections having slots formed therein and located to lie outwardly of the adjacent sections when the horn is extended, of springs connected with said sections and engaged in the slots, said springs lying normally in position to engage the adjacent sections to hold the horn in extended position, and being movable through the slots out of such position.

In testimony whereof we affix our signatures, in presence of two witnesses.

JULIUS C. STOCKER.
DARRELL A. WELSH.

Witnesses:
WILLIAM ESPY,
LUDWIG MAYER.