No. 834,865. PATENTED OCT. 30, 1906.

P. BERLINGHOFF.

DRUM.

APPLICATION FILED SEPT. 10, 1906.

2 SHEETS—SHEET 1.

Fig. 1.

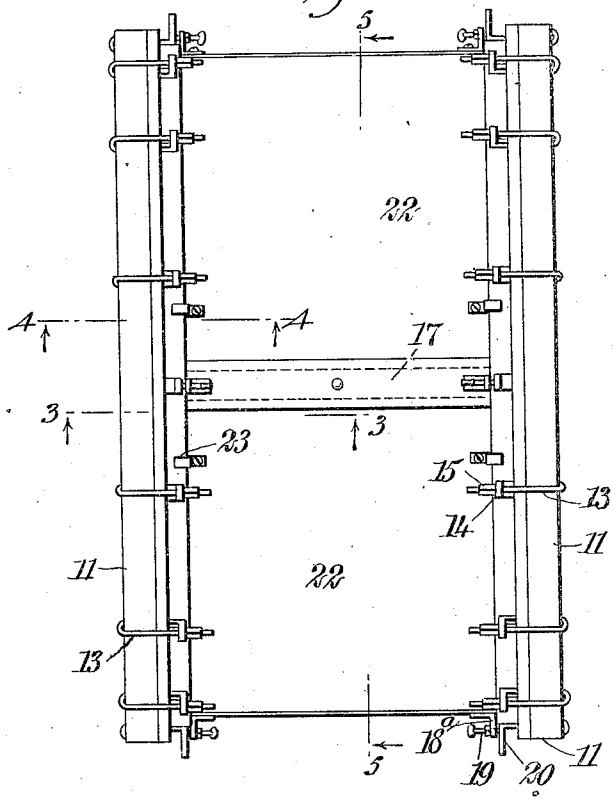


Fig. 2.

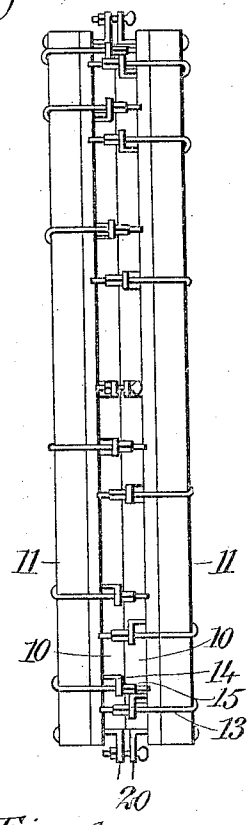


Fig. 3.

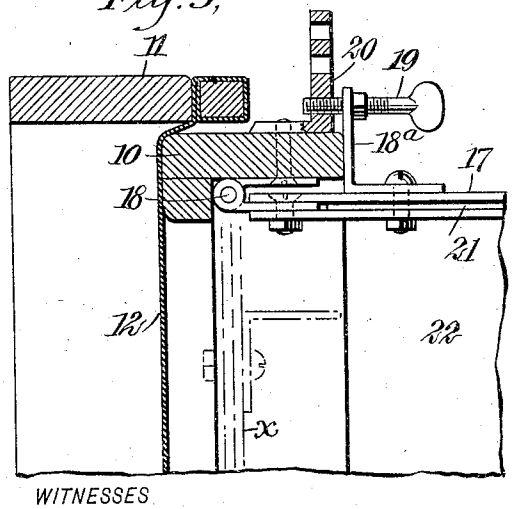
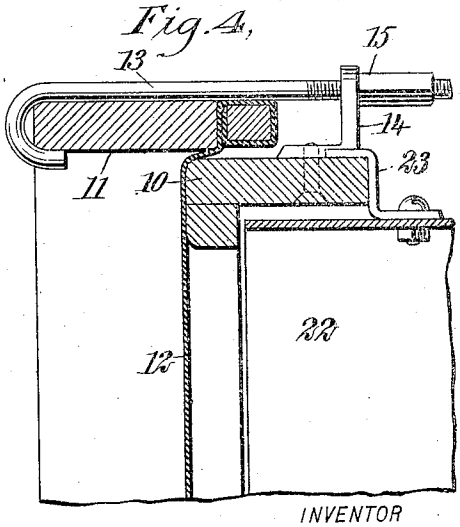


Fig. 4.



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2 SHEETS—SHEET 2.

Fig. 5.

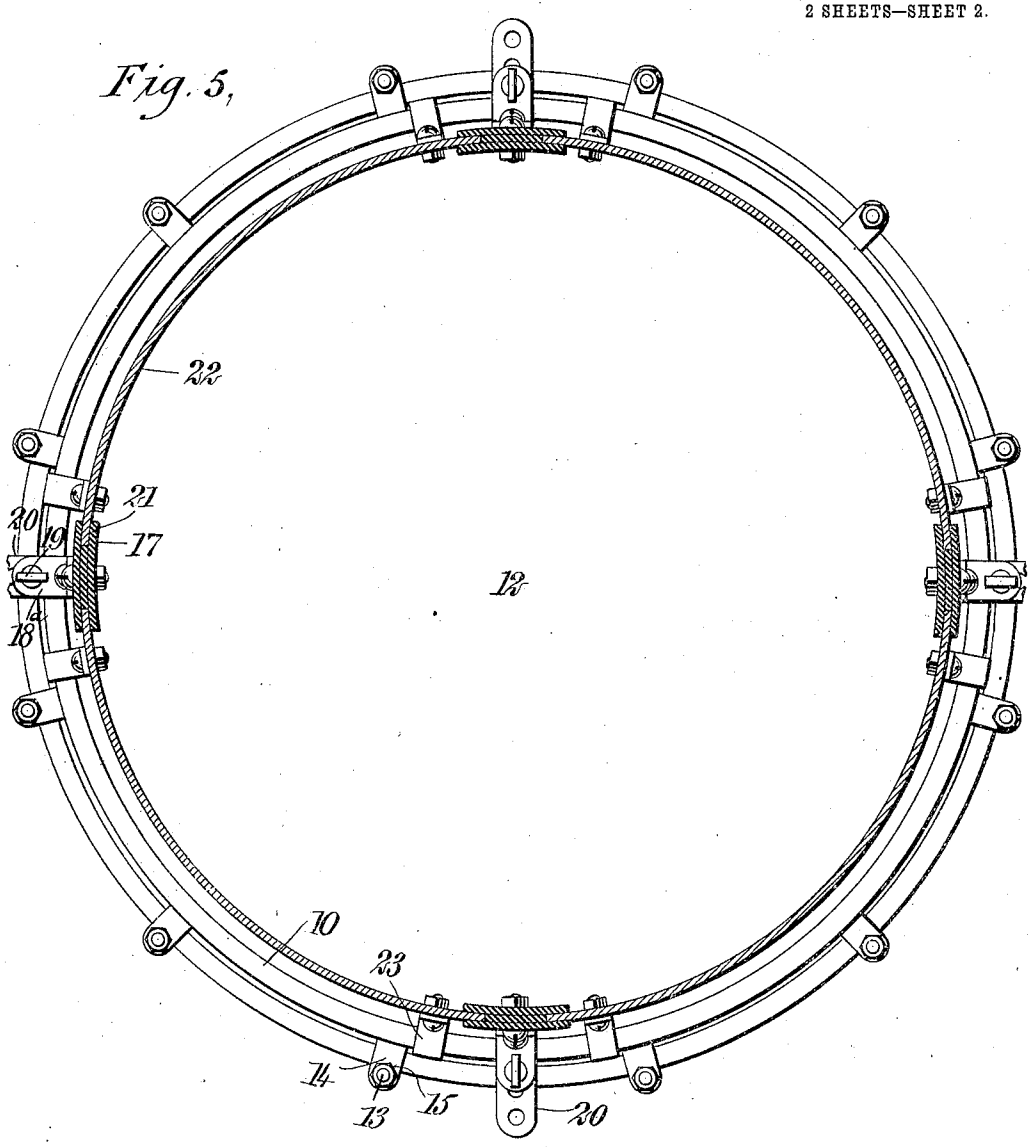
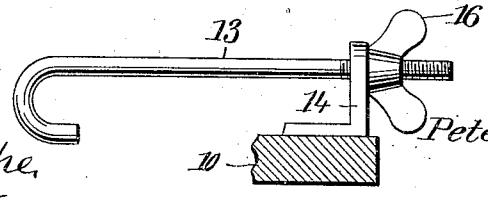


Fig. 6.



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PETER BERLINGHOFF, OF NEW YORK, N. Y.

DRUM.

No. 834,865. Specification of Letters Patent. Patented Oct. 30, 1906.

Application filed September 10, 1906. Serial No. 333,948.

To all whom it may concern:

Be it known that I, PETER BERLINGHOFF, a citizen of the United States, and a resident of the city of New York, borough of the Bronx, in the county and State of New York, have invented new and useful Improvements in Drums, of which the following is a full, clear, and exact description.

This invention relates to improvements in drums used in bands, orchestras, or the like, the object being to provide a drum so constructed that it may be compactly folded or reduced in length for convenience in transportation or storage and that when extended will be held rigidly in normal or playing position.

I will describe a drum embodying my invention and then point out the novel features in the appended claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a side view of a drum embodying my invention, showing the same as in condition for use. Fig. 2 is a side view showing the drum as folded or collapsed. Fig. 3 is a section on the line 3 3 of Fig. 1. Fig. 4 is a section on the line 4 4 of Fig. 1. Fig. 5 is a section on the line 5 5 of Fig. 1, and Fig. 6 is a detail showing a modification in the head-tightening clamps.

Referring to the drawings, 10 designates the hoops, and 11 the end rims, between which and the hoops the heads 12 are clamped at their edges. The clamping is done in the usual manner—that is, clamping-hooks 13 are employed, the hook ends of which engage over the rims, while the inner ends pass through perforations in brackets 14, attached to the hoops. The portions passing through the brackets are screw-threaded and engaged by nuts 15, which are angular in cross-section, to be engaged by a key. Instead of the nuts 15, designed to be engaged by a key, I may employ thumb-nuts 16, as indicated in Fig. 6.

Arranged at suitable intervals along the inner side of the hoops 10 are blocks or plates 17, which, as here shown, have hinge connection 18 with the inner side of one of the hoops, so that they may be swung outward lengthwise of the drum when the drum is in use, as indicated in full lines in Fig. 3, and when the drum is not in use or designed to be folded the said blocks or plates may be swung inward, as indicated by the dotted lines x in Fig. 3.

On each block or plate 17 is a perforated plate 18^a, arranged at right angles thereto, and through the perforation of this plate a fastening-screw 19 is designed to pass for engagement with a tapped hole in a bracket 20, secured to the hoop, as clearly illustrated in the drawings. At the opposite edges each block or plate is longitudinally channeled, as indicated at 21, to receive the ends of the segmental shell members 22, and attached at intervals along the edges of the segmental shell members are clips 23, consisting of suitable metal and designed to engage over the hoops 10, as shown in Fig. 4.

The operation is as follows: When the drum is to be arranged for use, the blocks or plates 17 are to be swung outward and secured in such position with relation to the ring with which they have swinging connection. Then the segmental shell members may be slid into position, after which the opposite hoop is to be placed and then secured by means of the devices at the opposite ends of the blocks or plates similar to the devices 18^a, 19, and 20; but when the drum is to be folded of course the segmental shell members are to be withdrawn and placed inside after turning inward the blocks or plates 17, and as the parts are moved together they are thus held by screws passing through opposite members 20, as clearly indicated in Fig. 2.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. In a drum, the combination with a hoop, of a plurality of blocks having swinging connection with the hoop, the said blocks being channeled at the opposite edges.

2. In a drum, the combination with a hoop, of a plurality of blocks having swinging connection with the hoop, the said blocks being channeled at the opposite edges, and means for locking the blocks in outwardly-extended position.

3. In a drum, the combination with a hoop, of a plurality of blocks having swinging connection therewith, means for swinging the blocks in extended position, and segmental shell members for connecting with the edges of the blocks.

4. In a drum, the combination with a hoop thereof, of blocks having swinging connection with the inner side of the hoop, perforated plates on the blocks, screws for passing

through said perforations, and plates on the hoop having threaded perforations for engaging with the threads of said screws.

5. In a drum, the combination with a hoop, of a plurality of blocks hinged to the inner side of said hoop and adapted to swing into and out of the hoop, the said blocks being channeled at the opposite edges, means for holding the blocks in their outwardly-extended position relatively to the hoop, segmental shell-sections, and clips on said sections for engaging over the hoop.

6. In a drum, the combination with the hoops and the end rims, of clamping devices having connection with the hoops, and rims for securing the drumheads in place, swinging blocks on one of the hoops, means for locking the blocks to the opposite hoops, and segmental shell-sections held in position by said blocks.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

PETER BERLINGHOFF.

Witnesses:
JNO. M. RITTER,
C. R. FERGUSON.