No. 663,854. Patented Dec. 18, 1900.

E. BOULANGER.

COMBINED ORCHESTRA AND BAND DRUM.

(Application filed June 11, 1900.)

(No Model.)

Fig. 1

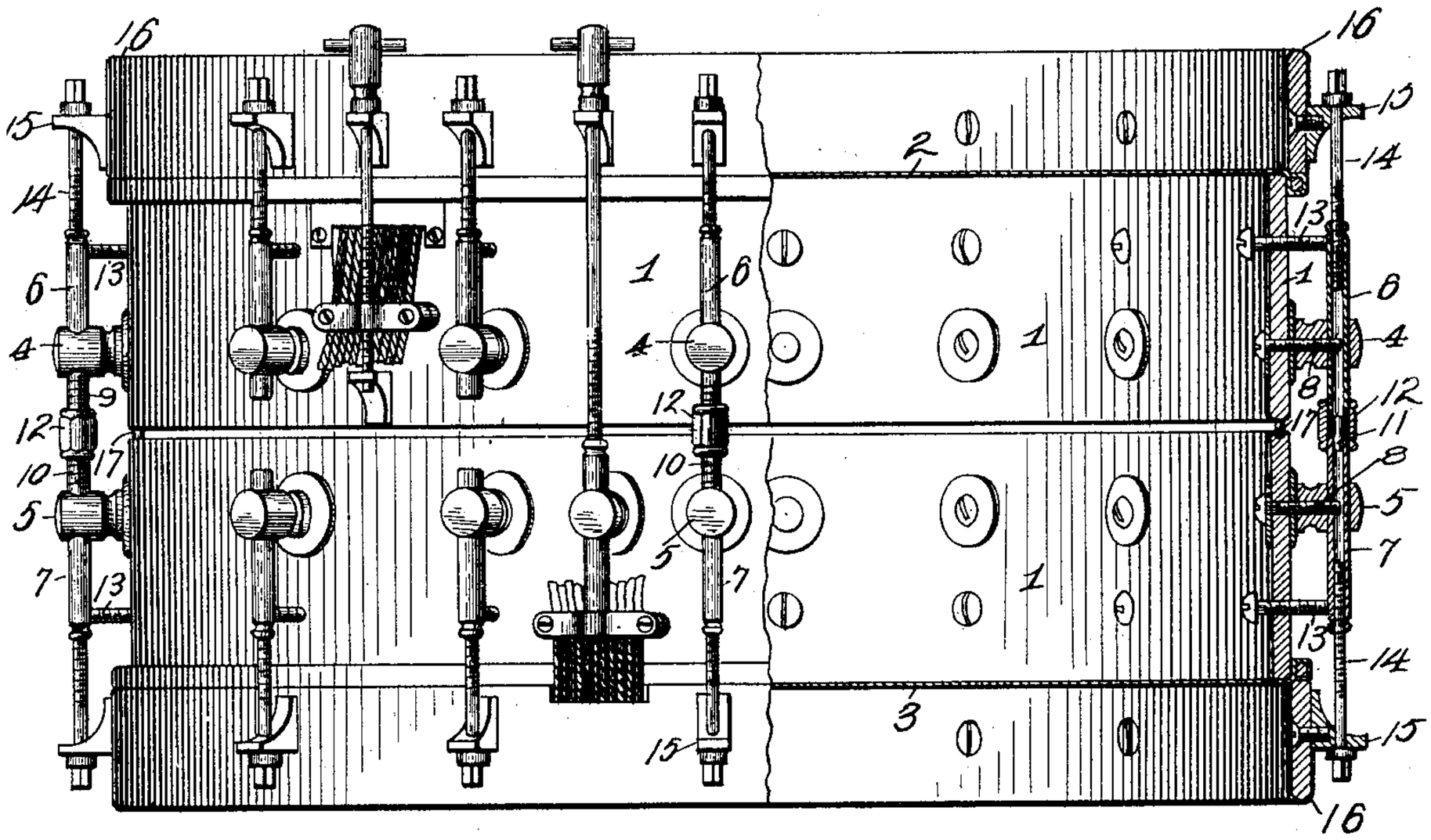


Fig. 2

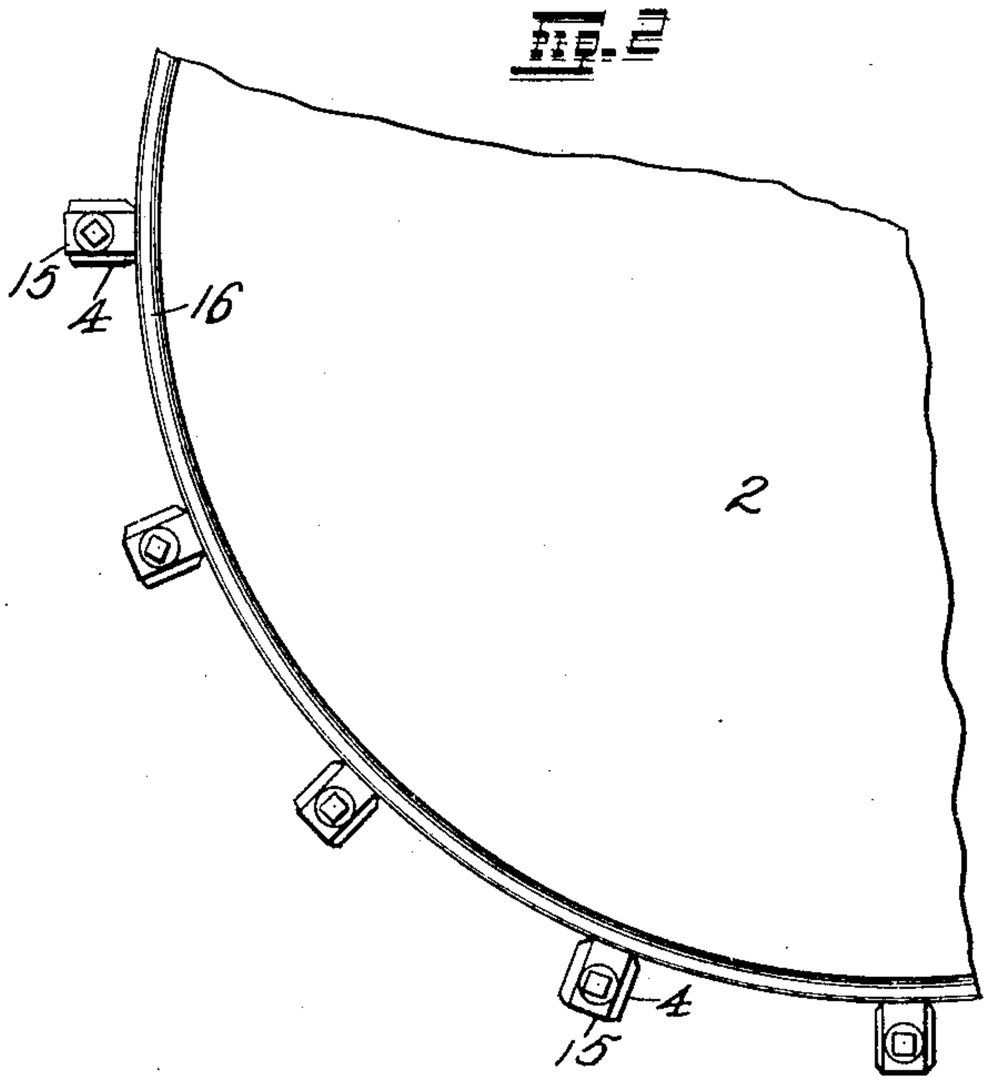


Fig. 3

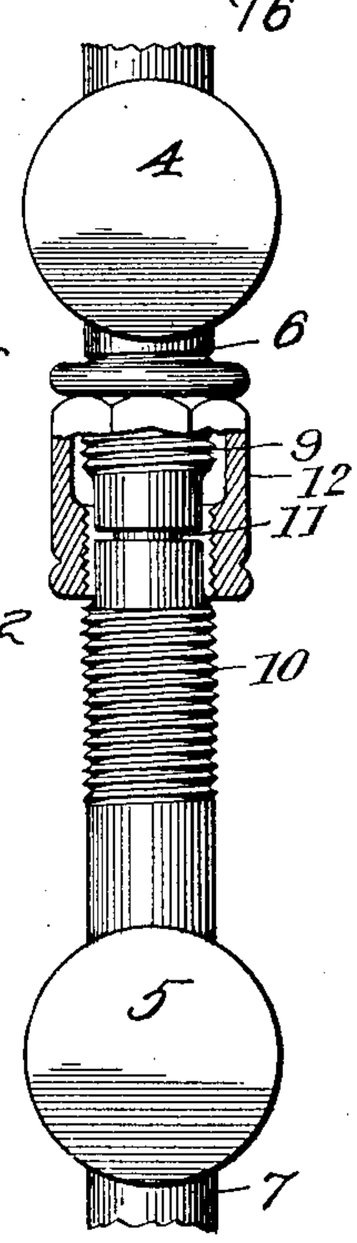
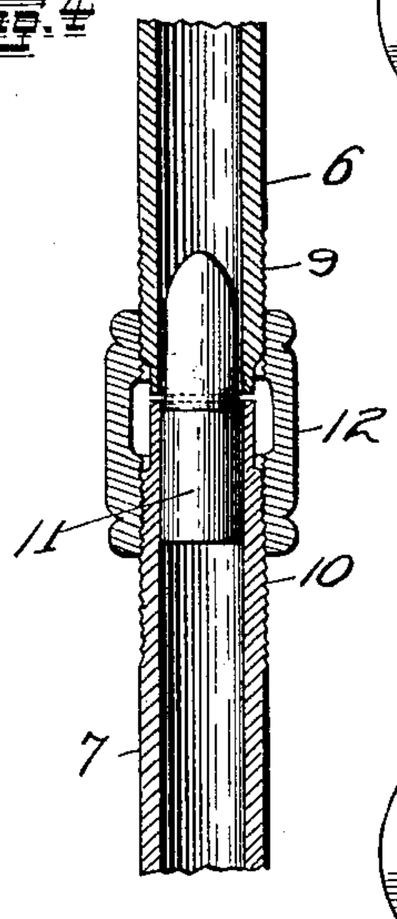


Fig. 4



Witnesses
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UNITED STATES PATENT OFFICE.

EMILE BOULANGER, OF ST. LOUIS, MISSOURI.

COMBINED ORCHESTRA AND BAND DRUM.

SPECIFICATION forming part of Letters Patent No. 663,854, dated December 18, 1900.

Application filed June 11, 1900. Serial No. 19,937. (No model.)

To all whom it may concern:

Be it known that I, EMILE BOULANGER, of the city of St. Louis, State of Missouri, have invented certain new and useful Improvements in a Combined Orchestra and Band Drum and Means for Coupling and Uncoupling the Same, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming a part hereof.

This invention relates to combined orchestra and band drums and means for coupling and uncoupling the same; and it consists of the novel construction, combination, and arrangement of parts hereinafter shown, described, and claimed.

Figure 1 is a side elevation of a drum, showing my invention applied thereto, parts of the device being shown in section. Fig. 2 is a top plan view of a part of the drum. Fig. 3 is a view showing the coupling attachment in a position to allow the separation of the drum. Fig. 4 is a sectional view of the coupling attachment while coupled together.

In the construction of this invention as shown I provide a drum-shell 1 of two parts, the upper one of which carries the drum-head 2, while the lower one is made to carry the snare-head 3. Secured upon the section 1 of the drum-shell at suitable intervals are posts 4 5, the posts 4 being on the upper portion of the shell and the posts 5 being carried by the lower portion. Through each of the posts 4 5 is an aperture, carried within which are tubes 6 and 7, the tubes 6 being carried by the posts 4 and the tubes 7 being carried by the posts 5. The posts are supported to the drum-shell by means of the screws 8, the outer ends of which project into the tubes 6 and 7, thereby holding them rigidly in position in their respective posts. The arrangement of these parts is best shown in Fig. 1 of the drawings.

On the lower ends of the tubes 6 are arranged screw-threads 9, having a pitch of thirty-six to the inch, and upon the upper ends of the tubes 7 are screw-threads 10, having a pitch of thirty-two to the inch. Carried in the upper ends of the tubes 7 are guide-rods 11, which project a suitable distance beyond the ends of the tubes 7 and when in use occupy a position within the lower ends of the tubes 6. The upper ends of the guides 11 are rounded off in order to better guide the tubes 6 in securing the different parts of the drum together. Nuts 12 are threaded upon the lower ends of the tubes 6 and upon the upper ends of the tubes 7, the purpose of which nuts is to hold the different parts of the drum together when applied, as shown in Fig. 1. The threads at the different ends of the nut 12 are of different pitch, corresponding to the threads 9 10, and in the middle of the said nut is a blank space, so that the nut may be threaded about three-fourths of its length upon either the threads 9 or 10 without the threads at the opposite end interfering. When it is desired to separate the drum, the nut 12 is turned to thread onto the small threads 9 and eventually assumes the position shown in Fig. 3, when the parts can be removed from each other. To secure the parts together again, they are applied in the required position, and the nut 12 is wound off the threads 9 onto the threads 10, onto which the said nut passes more rapidly than it leaves the threads 9, which results in the different parts of the drum being drawn closely together.

The purpose of having the threads 9 and 10 of different pitch is to cause the tubes 6 and 7 to be drawn closely together when the nuts are threaded off of the threads 9 onto the threads 10. The threads 10 being of greater pitch than the threads 9, the nut 12 will move from them faster, which will cause the parts to be drawn closely together, as above described.

Carried by the drum-shell 1 are screws 13, one of which is provided for each of the tubes 6 and 7 and which are arranged near the outer ends of the said tubes. The purpose of these screws is to engage against the ends of the said tubes and prevent their displacement and also prevent injury to the threads on the inner sides of the tubes, which threads are to receive the rods 14, carried by the brackets 15, which are secured to the rim 16 of the drum.

A drum constructed in accordance with the principles of my invention may be easily and quickly separated, and when so separated it is applicable for use as an orchestra-drum, and when joined together forms a very desirable band-drum. To separate the parts, it is only necessary to operate the nuts 12, freeing them from the tubes 6 or the tubes 7, after

which the parts may be removed one from the other, and to join the parts together it is only necessary to operate the nuts 12 so that they will again engage over the inner ends of both the tubes 6 and 7.

The threads 9 and 10 begin at a slight remove from the ends of the tubes 6 and 7, the purpose of which arrangement is to avoid injury to the threads, which would otherwise occur when the ends of the tubes contact with each other.

In connection with my improved coupling device I make use of the rubber posts 17, which are embedded in the upper edge of the lower portion of the drum-shell and which project upwardly and support the upper part of the drum-shell. These posts serve to give greater tension to the tightening device and also to hold the different parts of the drum-shell in the proper alinement. One of these rubber posts is used for each of the coupling devices above described.

I claim—

1. In a drum, a drum-shell of separable sections, posts supported by the different sections, tubes carried by said posts, and means for joining the ends of said tubes together, substantially as specified.

2. In a drum, a drum-shell of separable sections, posts carried by the separate sections, tubes supported by said posts, means for connecting said tubes together, and means whereby the ends of said tubes are held in alinement, substantially as specified.

3. In a drum, a drum-shell of separable sections, posts supported by the said sections, tubes carried by said posts, there being threads of different pitch on the adjacent ends of said tubes, and a nut for engaging with said threads, substantially as specified.

4. In a drum, a drum-shell of separable sections, posts carried by the different sections, tubes supported by said posts, guides carried by certain of said tubes, means for drawing the adjacent ends of the tubes closely together, and adjustable screws carried by the drum-shell for holding the ends of the tubes in the proper adjustment, substantially as specified.

5. In a drum, a separable drum-shell of different parts, posts carried by the said parts, coupling-tubes carried by said posts, a nut for joining said tubes together, and means whereby the ends of the said tubes are drawn closely together when the said nuts are operated, substantially as specified.

6. In a drum, a separable drum-shell composed of a number of sections, posts carried by the said sections, coupling-tubes carried by said posts, means for connecting said tubes together, and rubber posts carried by the drum-shell, as and for the purpose specified.

In testimony whereof I affix my signature in presence of two witnesses.

EMILE BOULANGER.

Witnesses:

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