No. 794,658. PATENTED JULY 11, 1905.

E. BOULANGER.

DRUM.

APPLICATION FILED JAN. 3, 1905.

FIG. 1.

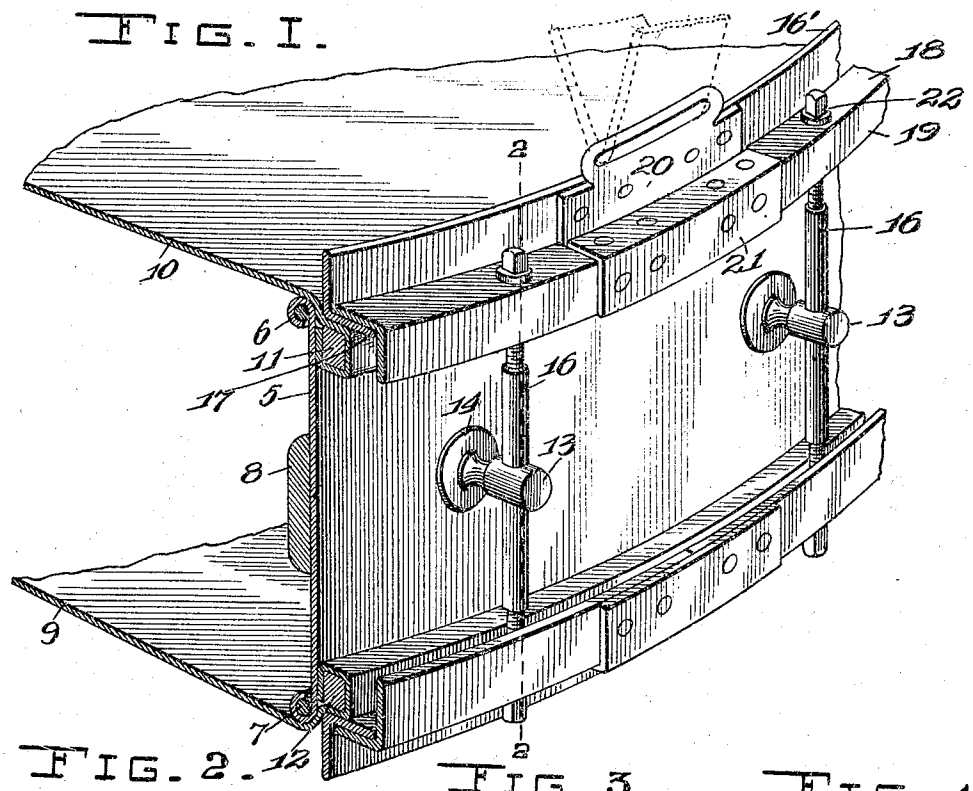


FIG. 2.

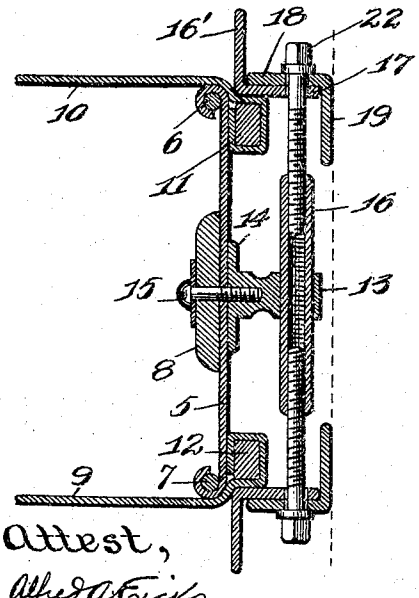


FIG. 3.

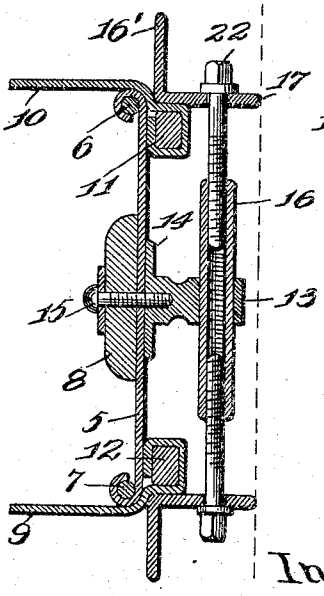
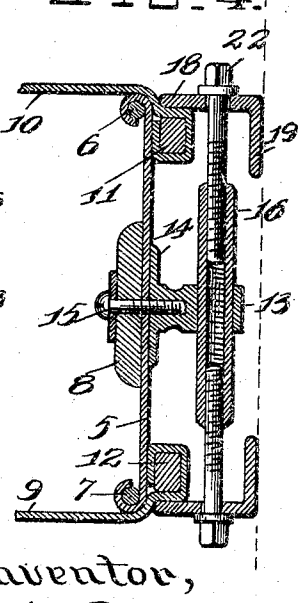


FIG. 4.



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No. 794,658. Patented July 11, 1905.

UNITED STATES PATENT OFFICE.

EMILE BOULANGER, OF ST. LOUIS, MISSOURI.

DRUM.

SPECIFICATION forming part of Letters Patent No. 794,658, dated July 11, 1905.

Application filed January 3, 1905. Serial No. 239,512.

To all whom it may concern:

Be it known that I, EMILE BOULANGER, a citizen of the United States, and a resident of St. Louis, Missouri, have invented certain new and useful Improvements in Drums, of which the following is a specification containing a full, clear, and exact description, reference being had to the accompanying drawings, forming a part hereof.

My invention relates to improvements in drums; and it consists of the novel features herein shown, described, and claimed.

In the drawings, Figure 1 is a perspective detail of my invention. Fig. 2 is a sectional detail on the line 2 2 of Fig. 1. Fig. 3 is a view analogous to Fig. 2, showing a modified construction. Fig. 4 is a view analogous to Fig. 2 and showing a second modification.

Referring to the drawings in detail, the metal shell 5 has wired beads 6 and 7 at its ends. A wooden band 8 is mounted inside of the shell at its center. The heads 9 and 10 are stretched over the beads 6 and 7 around the wooden clamping-hoops 11 and 12, said hoops fitting closely around the outside of the shell 5. A series of posts 13 have bases 14 against the outer face of the shell 5, and screws 15 are inserted from the inside through the hoop 8 and screw-seated into the posts. The tubes 16 are rigidly mounted in the posts 13, the ends of said tubes being internally screw-threaded.

In the preferred construction each adjusting-hoop comprises an inner metal ring consisting of the flange 16′ parallel with the shell 5 and the flange 17 at right angles to the flange 16′, and the outer metal ring comprising the flange 18 against the outer face of the flange 17 and the flange 19 parallel with the flange 16′ and projecting downwardly. Each ring is formed by taking a piece of angle-iron or brass, cutting it to the desired length, bending it to a circle, and securing the ends together by suitable splices, such as 20 and 21. In forming the rings the two pieces of metal are bent in opposite directions, so that when the two rings are fitted together they form a Z-bar, the center of said bar being double thickness. These adjusting-hoops are placed against the heads 9 and 10, outside of the beads 6 and 7, and the adjusting-screws 22 are inserted through the hoops into the posts 16, so that by tightening the screws the heads are tightened.

In Fig. 3 the outer ring is omitted, and in Fig. 4 the inner ring is omitted. While I consider the preferred construction shown in Figs. 1 and 2 stronger and more satisfactory, it is obvious that either of the other constructions may be used without departing from the spirit of my invention. It is only necessary that the adjusting-hoops have continuous outer surfaces extending beyond the outer ends of the posts 13, so that the drum may roll upon the floor or come in contact with any flat body without engaging the posts 13, the tubes 16, or the inner ends of the adjusting-screws 22. The angular shapes used in forming the hoops make the hoops stiff, so that they will retain their circular form and at the same time use only a small amount of metal. The inner flanges project longitudinally beyond the heads 9 and 10, so as to protect the heads. The center flanges 17 and 18 project transversely beyond the adjusting-screws and posts, so as to protect said adjusting-screws and posts, and the outer flanges 19 project longitudinally inwardly to present wide bearing-surfaces extending continuously around the drum outside of the shell 5, said flanges covering and protecting the hoops 11 and 12 and those portions of the skins around the hoops.

I claim—

1. A drum having an adjusting-hoop consisting of two rings formed of angle-iron; said rings having flanges extending in opposite directions.

2. A drum having adjusting-hoops each consisting of two rings formed of angle-iron; said rings having flanges extending in opposite directions and the outer faces of said hoops extending beyond the adjusting-screw sockets.

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

EMILE BOULANGER.

Witnesses:

ALFRED A. EICKS,

EDWARD E. LONGAN.