No. 756,730. PATENTED APR. 5, 1904.

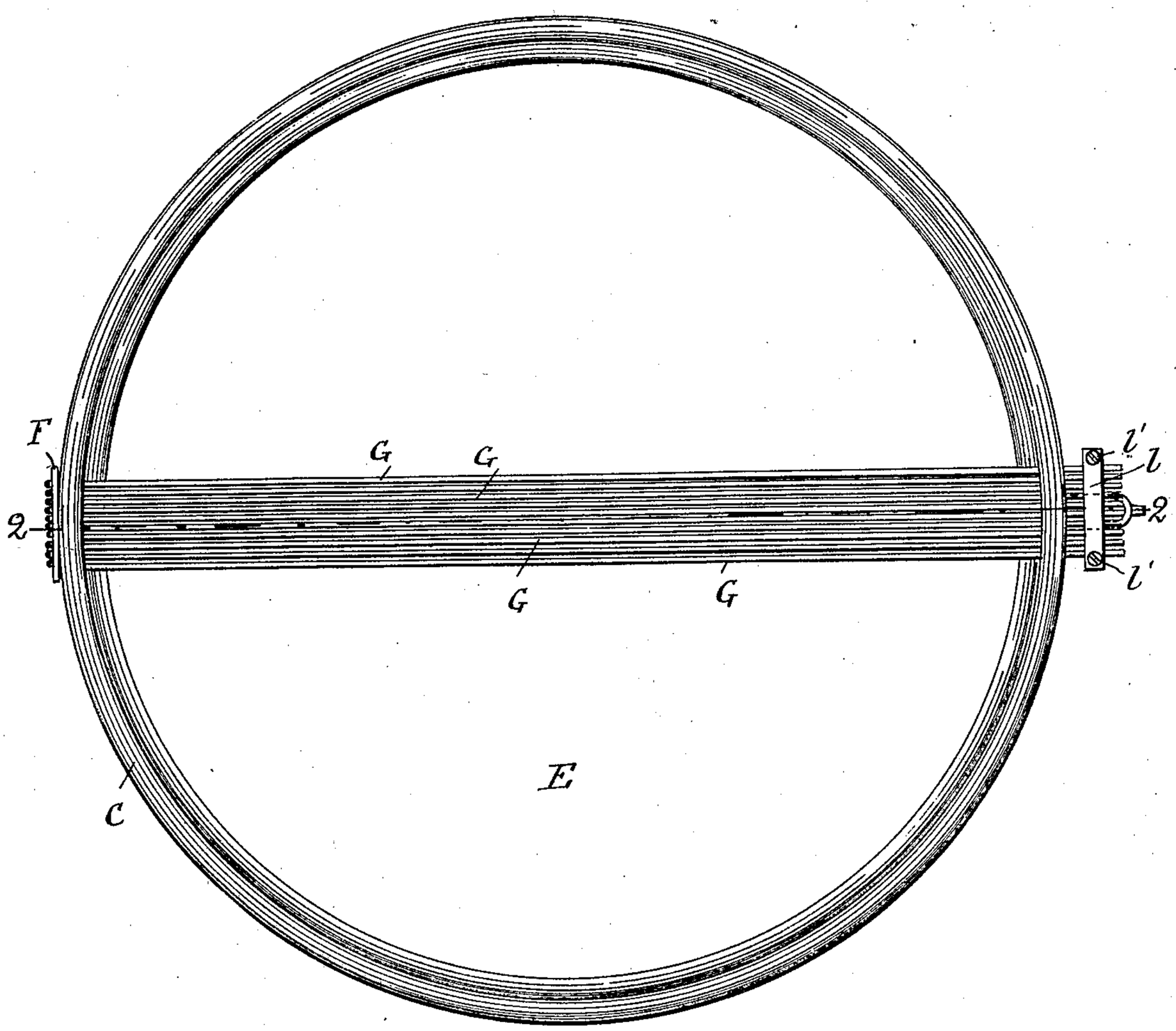
C. A. STROMBERG.

SNARE TIGHTENING DEVICE FOR DRUMS.

APPLICATION FILED JULY 20, 1903.

NO MODEL. 2 SHEETS—SHEET 1.

Fig. 1.



Witnesses.

Laurits N. Möller.

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Fig. 2.

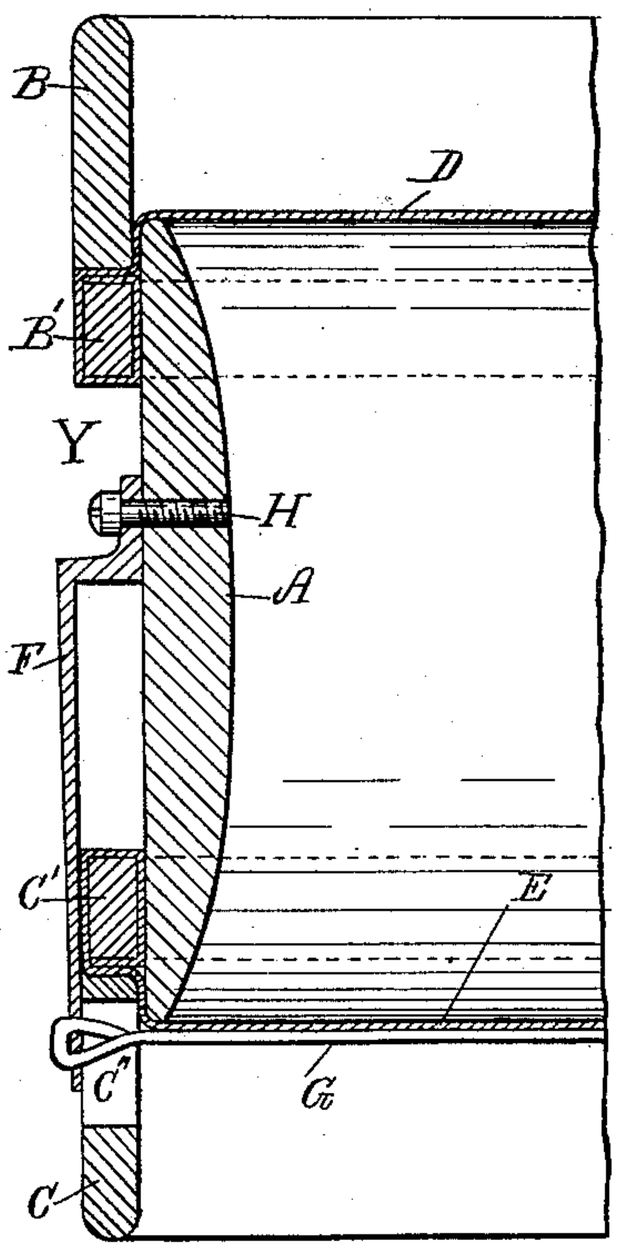


Fig. 4.

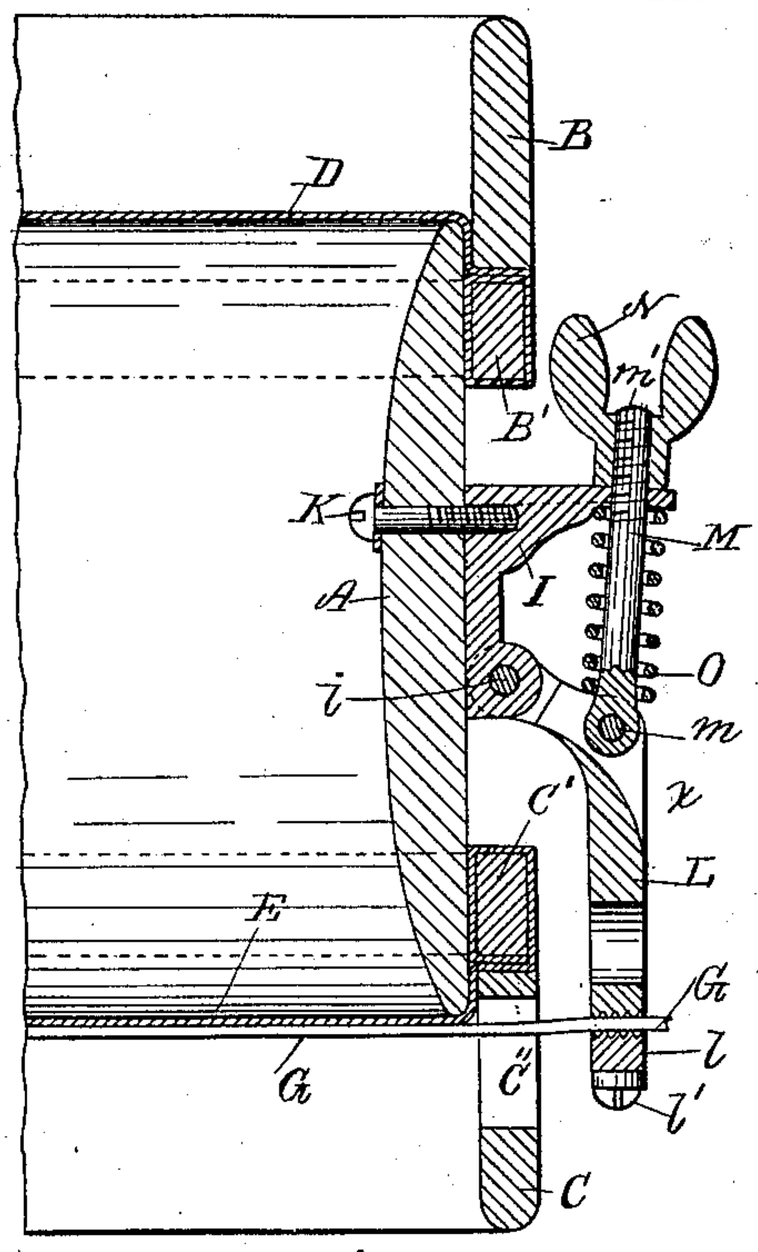
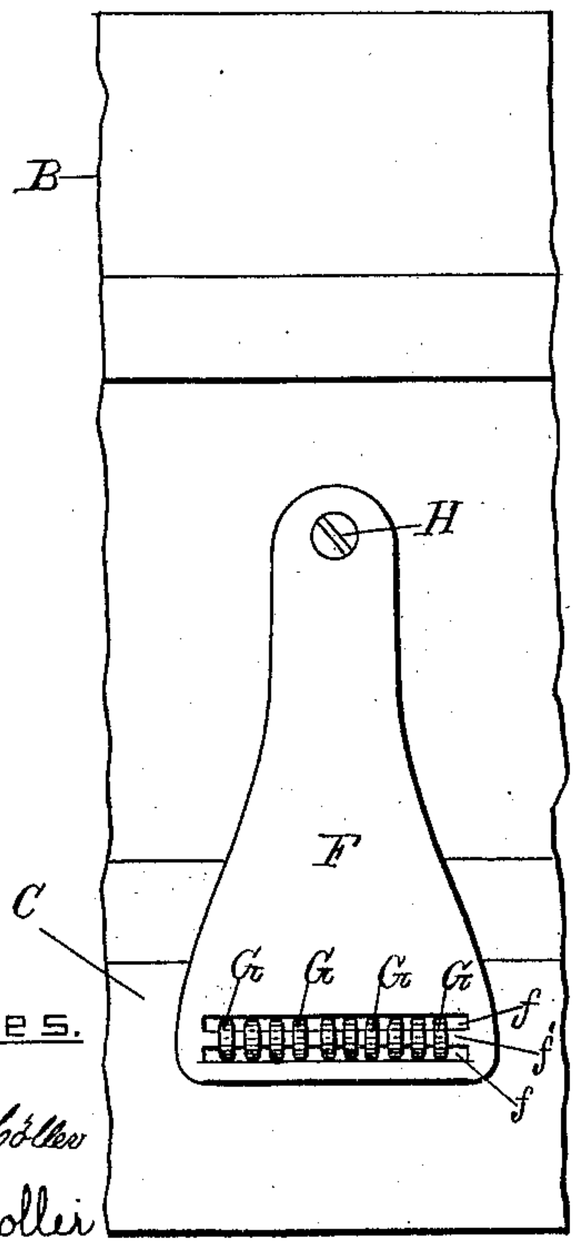
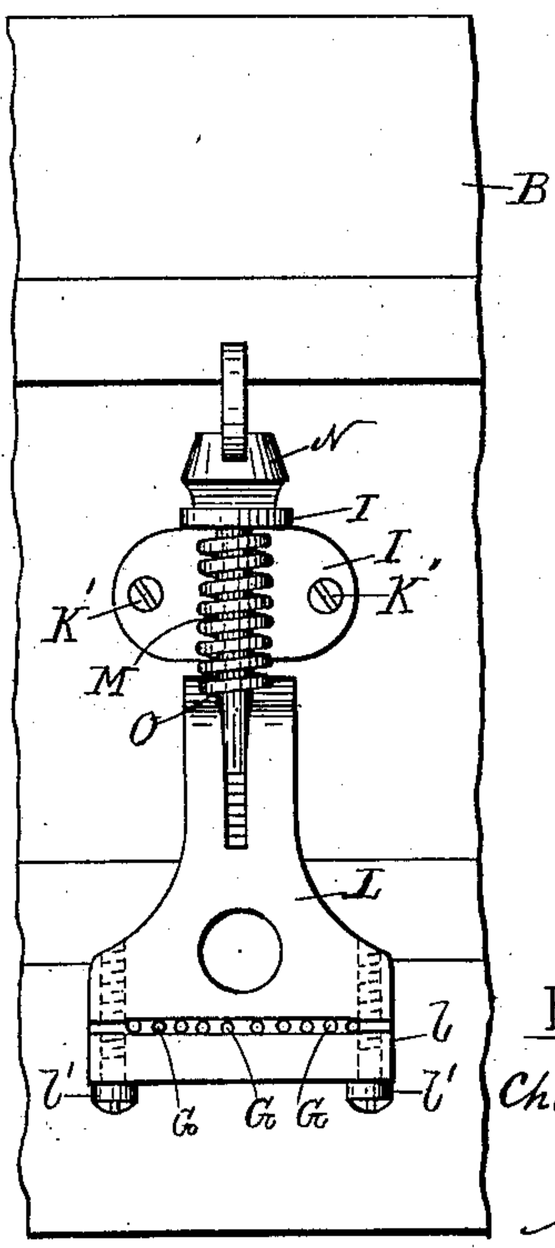


Fig. 3.





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UNITED STATES PATENT OFFICE.

CHARLES A. STROMBERG, OF CHELSEA, MASSACHUSETTS.

SNARE-TIGHTENING DEVICE FOR DRUMS.

SPECIFICATION forming part of Letters Patent No. 756,730, dated April 5, 1904.

Application filed July 20, 1903. Serial No. 166,312. (No model.)

To all whom it may concern:

Be it known that I, CHARLES A. STROMBERG, a citizen of Sweden, and a resident of Chelsea, in the county of Suffolk and State of Massachusetts, have invented certain new and useful Improvements in Snare-Tightening Devices for Drums, of which the following is a specification.

This invention relates to snare-tightening devices for drums, and it is carried out as follows, reference being had to the accompanying drawings, wherein—

Figure 1 is a bottom plan view of a drum provided with my improved snare-tightening device. Fig. 2 is an enlarged central longitudinal section on the line 2 2 shown in Fig. 1. Fig. 3 is a partial end view seen from X in Fig. 2, showing the adjustable clamp to which the loose ends of the snares are attached; and Fig. 4 is a partial end view seen from Y in Fig. 2, showing the snare-holder to which the looped ends of the snares are connected.

Similar letters refer to similar parts wherever they occur on the different parts of the drawings.

In the drawings, A represents the annular drum-shell provided with the adjustable upper and lower hoops B and C and their rings B′ C′, to which are attached the respective upper and lower drumheads D E, as usual. The said hoops B C may be provided with any well-known device for tightening the drumheads, but as such tightening device forms no part of my present invention it is not represented in the drawings.

To the exterior of the shell A is secured the metal snare-holder F, the lower end of which is preferably provided with slotted perforations *f f* and intermediate bar *f′*, to which the looped ends of the snares G G are suitably attached. In practice I prefer to secure the said snare-holder to the outside of the shell A by means of a screw-bolt H, as shown in Figs. 2 and 4, but this is not essential, as said snare-holder may be secured to the shell in any suitable or equivalent manner. To the opposite side of the shell A is secured the adjustable snare-clamp, which is composed of a bracket I, firmly secured to the outside of the shell A, preferably by means of fastening-screws K K′ K′. (Shown in Figs. 2 and 3.)

To the lower end of the bracket I is pivoted at *i* a preferably angular clamp L, provided at its lower end with a bar *l*, between which and the clamp L the loose ends of the snares G G are secured by means of screws *l′ l′*, going loosely through perforations in the bar *l* and screwed into screw-threaded perforations in the lower end of the clamp L, as shown in Figs. 2 and 3. For adjusting the tension on the snares I employ a rod M, preferably pivoted at *m* to the clamp L, which rod passes loosely through a perforation in the bracket I. The upper end of said rod is screw-threaded, as shown at *m′*, and is provided with an adjusting-nut N, as shown in Figs. 2 and 3.

C″ C″ are perforations in the lower hoop C, through which the ends of the snares G G pass freely, as shown in Fig. 2.

In practice I arrange upon the rod M, between the bracket I and clamp L, a compressible coiled spring O, (shown in Figs. 2 and 3,) which serves as a means for releasing the tension on the snares when the nut N is loosened.

It will be noticed that this my snare-strainer device is attached directly to the outside of the drum-shell at opposite places independent of the hoops, by which the drum is prevented from becoming what is termed "snare-bound," a condition liable to happen with ordinary devices for this purpose, in which the strainer is attached to the hoops, causing the snares to be bound between the head and hoop at the junction of the shell when the head is stretched by the adjustment of the hoop. In my device the snares are caused to be held closer to the head and can be more easily adjusted, causing them to vibrate more freely and evenly, thereby producing the sharp, bright quality of tone so essential to a perfect drum. To tighten the snares, it is only necessary to turn the nut N more or less toward the right, causing the lower end of the clamp L to move outward, thus imparting the desired tension to the snares. To loosen the snares, the said nut is turned in an opposite direction, causing the coiled spring O to

move the lower end of the clamp L toward the hoop C, thus readily adjusting the tension on the snares.

Having thus fully described the nature, construction, and operation of my invention, I wish to secure by Letters Patent and claim—

1. In a snare-tightening device, the combination with the shell of a drum, of a snare-holder secured to the upper portion of the shell and depending below the same, and a snare-clamp adjustably secured to the shell diametrically opposite to the holder and depending below the shell.

2. In a snare-tightening device, the combination with a drum consisting of a shell, a pair of hoops, the lower of which is provided with diametrically opposite openings, a plurality of snares extending through said openings and an upper, and a lower head secured to the shell by means of the hoops, of a snare-holder connected at its upper end to the shell and depending downwardly to partly extend across one of the openings in the lower of the hoops, said holder adapted at its lower end to be connected to one end of the snares, and a snare-clamp adjustably secured to said shell diametrically opposite to the holder and depending below the shell and to a point opposite and removed from the other of said openings of the lower hoop, said snares adapted to have their other ends secured to the lower end of said snare-clamp.

3. In a snare-tightening device, the combination with the shell of a drum, of a snare-holder secured at its upper end to the shell and depending below the same, a bracket secured to said shell diametrically opposite to the holder, and an adjustable snare-clamp pivotally connected to said bracket.

4. In a snare-tightening device, the combination with the shell of a drum, of a snare-holder secured to the shell and depending below the same, a bracket secured to the shell at a point diametrically opposite to the holder and provided with an opening, a snare-clamp pivotally connected to said bracket and depending below the shell, a threaded rod secured at its lower end to the clamp and extending upwardly through said opening, a spring mounted upon the rod and interposed between the upper portion of the bracket and said clamp, and a nut mounted upon the screw-threaded portion of said rod.

5. In a snare-tightening device, the combination of the shell of a drum, of a snare-holder secured to the shell and depending below the same, a bracket secured to the shell at a point diametrically opposite to said holder, said bracket at its upper end provided with an extension having an opening, a clamp having its upper end pivotally connected to the lower end of said bracket, and adapted to extend below the shell and arranged a suitable distance therefrom, a rod connected at its lower end to the clamp and extending through said opening, a spring mounted on said rod, and an adjusting-nut carried by the rod.

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

CHARLES A. STROMBERG.

Witnesses:
ALBAN ANDRÉN,
MARY MCCLOSKEY.