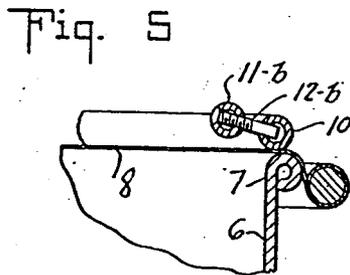
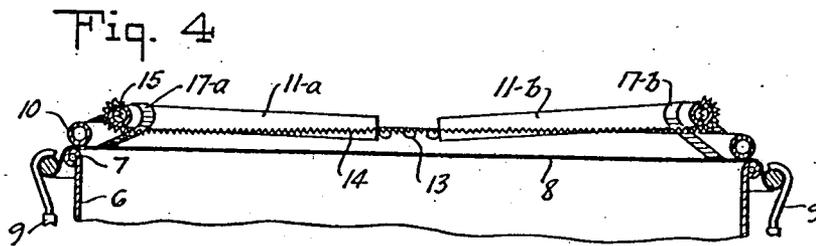
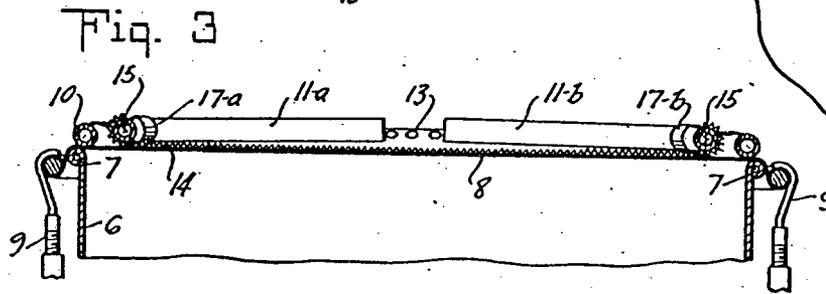
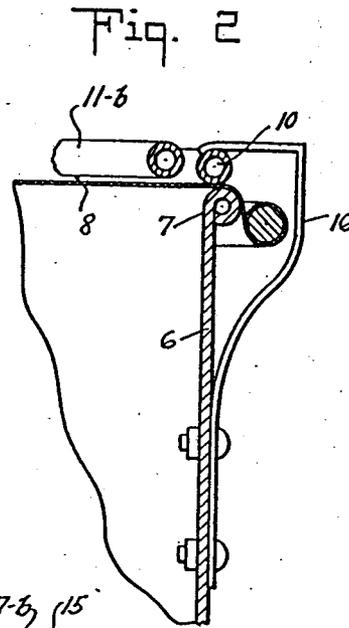
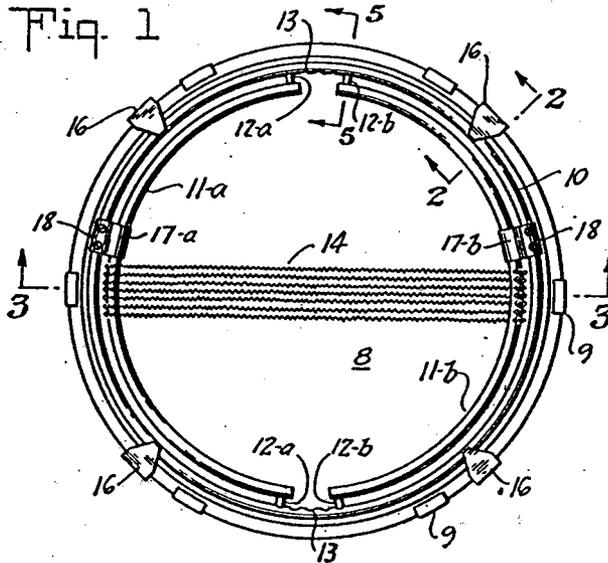


April 16, 1929.

H. A. BOWER
SNARE ATTACHMENT

1,709,165

Filed Dec. 27, 1926



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SNARE ATTACHMENT.

Application filed December 27, 1926. Serial No. 157,171.

This invention relates to a snare attachment unit for drums capable of being detachably mounted on a drum and which does not require snare beds to insure the snares resting against the head. It is an object of this invention to provide a unit of the character described wherein the snares as a group hug and follow the head in its vibration and at the same time permit the snares to vibrate independently thereby securing perfect snare cooperation. Another object of this invention is to provide a simple and inexpensive unit wherein the snares may be applied instantaneously to the head, or released by the drummer so as to produce the usual snare effect or muffle the drum as desired.

The various advantages of the structure will be apparent from the description of the embodiment of the invention which is illustrated in the accompanying drawings, in which:

Fig. 1 is a plan view of a snare drum with the snare head uppermost; Fig. 2 is a section through the drum showing a fragment thereof on an enlarged scale as seen on the line 2—2 of Fig. 1; Fig. 3 is a section of the snare head end of the drum as seen on the line 3—3 of Fig. 1, particularly showing the snare attachment; Fig. 4 is a section similar to Fig. 3 with the snare in released condition; and Fig. 5 is a section as seen on the line 5—5 of Fig. 1 showing a detail of the structure.

Referring with more particularity to the drawing, the invention is shown herein as embodied in a snare drum, but it is not limited to use with such a drum. The particular drum shown herein is for illustrative purposes only. It comprises a barrel or shell 6, which may be constructed of fibre, or any other suitable material. It is beaded at the edges as indicated by 7 to provide a rounded surface over which the head 8 may be stretched. This head may be the usual skin or membrane and may be secured over the shell by suitable hoops and hooks not illustrated in detail but generally indicated by 9.

The attachment is disposed within the perimeter of the head and comprises an integral ring frame 10. A divided bridge ring is disposed within the ring 10 and comprises segments 11^a and 11^b. Each segment has at its end trunnions 12^a and 12^b. These trunnions comprise pins arranged to be disposed in suitable holes 13 disposed diametrically opposite on the inner side of ring 10. By ad-

justing the pins in proper holes, the distance across the divided ring may be adjusted and the tension on the snares varied. The divided ring is articulated that is, the segments are joined together, the outer ring 10 serving as a joint connection between the segments and providing a portion of the articulation. Strung across the divided ring are the snares 14 which may be of helical wire or other suitable material acting as springs tending to buckle the divided ring. The segments of the ring act as bridges for the snares. The ring will tend to buckle over center in either direction. The snares may be secured to the segments by being inserted in holes 15 in the segments as best shown in Figs. 3 and 4.

The attachment may be held against the drums by means of hooks 16 attached to the shell and overhanging the ring 10. These hooks are preferably made of resilient strap material thereby providing for easy attachment and detachment of the snare unit. However, other means may be used to attach the ring to the drum. With the snares in the position shown in Fig. 3, the segments tend to buckle so as to hold the snares collectively against the head. In order to prevent complete buckling, the segments are limited in movement by the webs 17^a and 17^b which are fastened to the ring 10 by a clamp 18 and looped about segments 11^a and 11^b. Web 17^b is longer than web 17^a. In the position shown in Fig. 4, the snares are released from contact with the head. This position may be quickly attained by grasping segment 11^b when in a position shown in Fig. 3 and pulling it outwardly away from the head. This moves segment 11^b so that the axis of the articulation is over center and causes the divided ring to buckle so as to hold the snares away from the head. It will be noted that segment 11^b is permitted a greater swinging movement than 11^a by reason of the position of the length of web 17^b thereby insuring complete buckling. To reapply the snares, segment 11^b is pushed inwardly toward the drum until it moves over center and the tendency is then to buckle in the opposite direction with the snares hugging the drum head.

It is obvious that the snares when the attachment is in the condition shown in Fig. 3, will follow the head, lying snugly against it, the bridge ends of the snares being pressed against the head by the tendency to buckle of the segments. The drummer may con-

tinue to strike with his right stick and apply or release the snares with his left hand.

By the construction which I have herein disclosed it will be seen that a drum may be
5 produced which possesses the capability of full vibration under blows of all character. Different types of snares may be used with the same drum by merely changing the attachment.

10 The tension of the snares may be individually adjusted by means of the holes 15. The snares may be collectively adjusted by adjusting the position of the trunnions 12^a and 12^b in the holes 13 so that the collective tension
15 may be varied to insure a manifold action.

What I claim is:

1. In combination with a drum comprising a shell and head stretched thereacross, a snare attachment disposed over said head
20 including a frame, snare bridges on said frame movable to and from said head, snares strung on said bridges tending to move the latter either to or from said head, and means urging the attachment against said head.

25 2. In combination with a drum comprising a shell and a head stretched thereacross, a snare attachment disposed over said head including a frame, snare bridges articulated to said frame so as to be swung to or from said
30 head, snares strung on said bridges tending to swing the latter either to or from said head, and means yieldingly holding said attachment against said head.

3. In combination with a drum comprising
35 a shell and a head stretched thereacross, a snare attachment disposed over said head including a ring frame divided to form segments with one of the segments articulated to the remainder of said ring so as to be movable laterally of said ring, snares strung
40 across said ring and being connected at one end to the articulated segment whereby the snare may be released from said head by moving said segment away from said head, and means urging said ring against said head with said snares applied thereto.

4. In combination with a drum comprising a shell and a head stretched thereacross, a snare attachment disposed over said head
50 including a ring frame, a ring segment articulated to said frame so as to be movable laterally of said head, snares strung within said frame and being connected at one of the ends to the articulated segment whereby the
55 snares may be released by moving said segment away from said head, and means for detachably holding said frame against said head with a yielding pressure.

5. In combination with a drum comprising
60 a shell and a head stretched thereacross, a snare attachment disposed over said head including a ring frame, a divided ring having its segments articulated to the frame, snares strung across said ring and being connected
65 at the ends to the articulated segments so as

to tend to buckle said frame, and means urging said frame against said head.

6. In combination with a drum comprising a shell and a head stretched thereacross, a snare attachment disposed over said head
70 including a ring frame, a bridge ring divided into two segments hingedly jointed so as to be foldable, snares strung under tension across said bridge ring from one segment to the other tending to buckle said bridge ring,
75 and means for detachably holding said frame against said head and urging said ring to follow said head.

7. A snare attachment for drums comprising a ring frame, a bridge segment articulated to said frame, snares strung under tension
80 across said ring and being connected at one of their ends to the articulated segment, said snares tending to buckle said frame.

8. A snare attachment for drums comprising
85 a ring frame, a bridge ring divided into two segments connected to said frame by articulations, and snares strung under tension across said bridge ring from one segment to the other tending to buckle said bridge ring.

9. A snare attachment for drums comprising a ring frame a bridge ring divided into two segments hinged to said frame at adjacent ends so as to be folded, and snares strung
90 under tension across said bridge ring from one segment to the other tending to buckle said bridge ring.

10. A snare attachment for drums comprising a ring frame, a bridge ring divided into two segments hinged to said frame at adjacent ends so as to be folded, means to limit the folding movement of said segments whereby one of said segments is limited to lesser amplitude of movement than the other
105 of said segments, and snares strung under tension across said bridge ring from one segment to the other tending to buckle said bridge ring.

11. A snare attachment for drums comprising a ring frame, a bridge ring divided into
110 two segments, snares strung across said bridge ring, means for hinging and adjustably spacing the hinge axes of said segments to said frame at adjacent ends so as to be collapsible whereby to vary the collective tension on said snares.

12. A snare attachment for drums comprising a ring frame, a bridge ring divided into two segments, snares strung across said
120 bridge ring, means for hinging and adjustably spacing the hinge axes of said segments to said frame at adjacent ends so as to be collapsible whereby to collectively adjust the tension on said snares, and means to individually adjust the tension on said snares.

In witness that I claim the foregoing I have hereunto subscribed my name this 17th day of December, 1926.

HARRY A. BOWER.