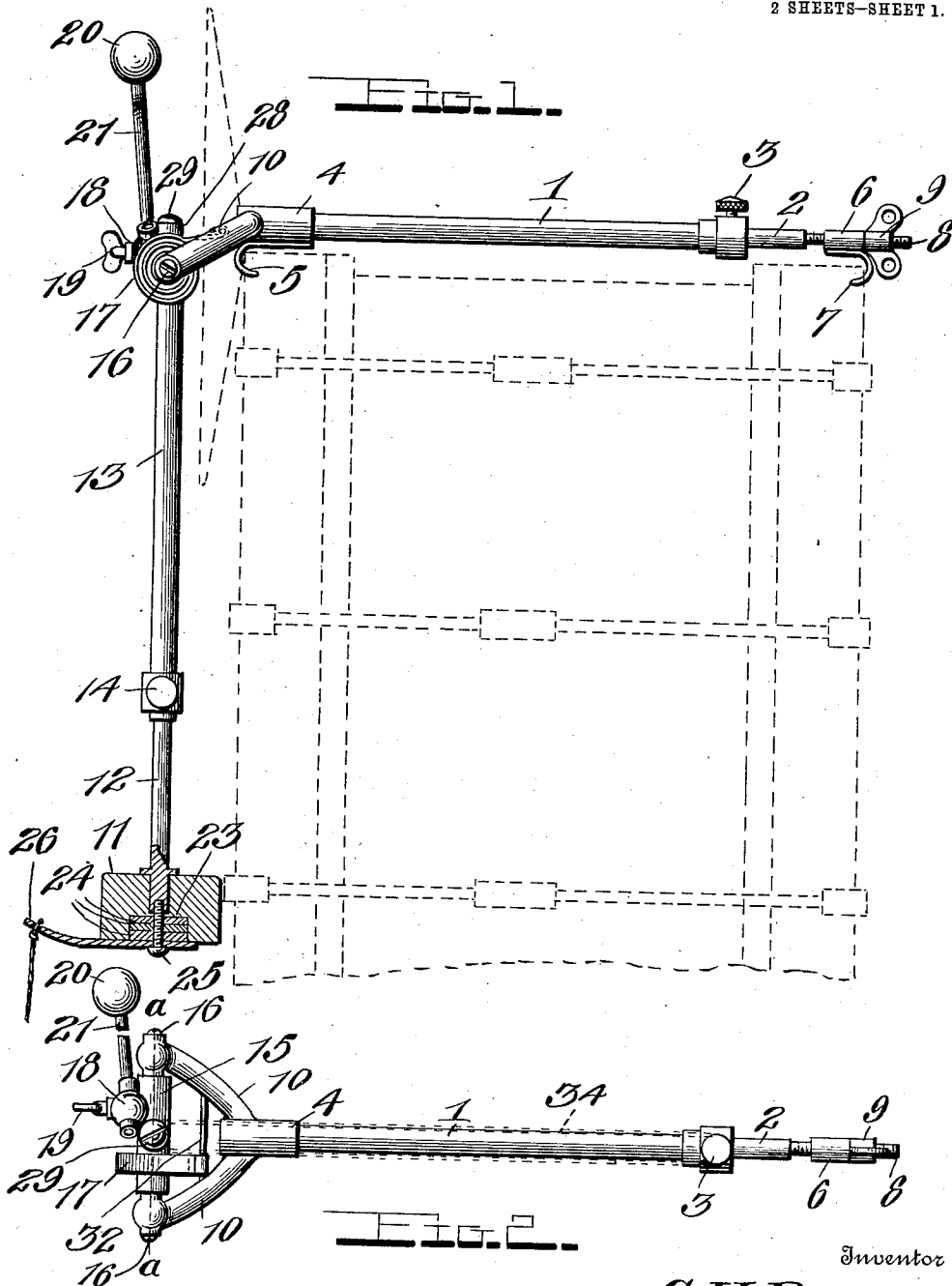


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 DRUM AND CYMBAL BEATER.
 APPLICATION FILED SEPT. 6, 1910.

1,033,270.

Patented July 23, 1912.

2 SHEETS-SHEET 1.



Witnesses

Chas. L. Griebauer.
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By

G. H. Risley,

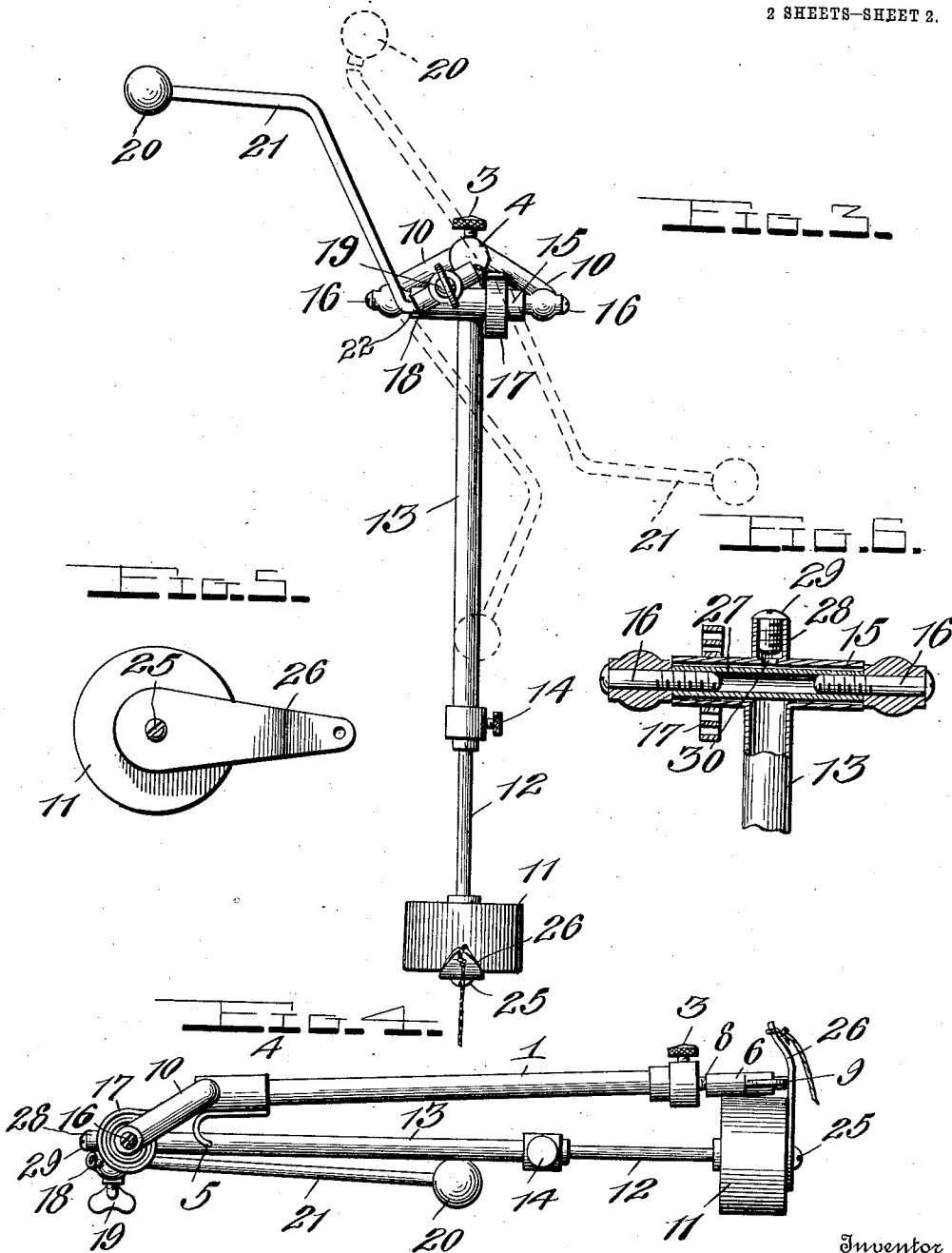
Watson E. Coleman,
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Inventor
 G. H. Risley,

By Watson E. Coleman.
 Attorney

UNITED STATES PATENT OFFICE.

GEORGE H. RISLEY, OF MINNEAPOLIS, MINNESOTA.

DRUM AND CYMBAL BEATER.

1,033,270.

Specification of Letters Patent.

Patented July 23, 1912.

Application filed September 6, 1910. Serial No. 580,502.

To all whom it may concern:

Be it known that I, GEORGE H. RISLEY, a citizen of the United States, residing at Minneapolis, in the county of Hennepin and State of Minnesota, have invented certain new and useful Improvements in Drum and Cymbal Beaters, of which the following is a specification, reference being had to the accompanying drawings.

This invention is an improved mechanism for simultaneously beating a drum such as a base drum, and a cymbal thereon, the object of the invention being to provide an improved device of this character which may be readily attached to the drum, which may be readily adjusted at will, and which is provided with means to enable the cymbal beating ball to be operated simultaneously with the drum beating arm or not as may be desired and to be adjusted so as to strike the cymbal at any desired point, a further object of the invention being to provide an improved device of this character which, when not in use, may be compactly folded so as to occupy but very little space.

With the above and other objects in view, the invention consists in the construction, combination and arrangement of devices hereinafter described and claimed.

In the accompanying drawings,—Figure 1 is a side elevation of a drum and cymbal beater constructed in accordance with my invention, a portion of a drum, and of a cymbal thereon being indicated in dotted lines. Fig. 2 is a plan of the same. Fig. 3 is a front elevation of the same. Fig. 4 is an elevation of the same showing the device folded, and compactly disposed, and Fig. 5 is a detail plan of the drum beater head. Fig. 6 is a detail sectional view on the plane indicated by the line *a— a* of Fig. 2.

In accordance with my invention, I provide a clamping arm for attachment to a bass drum, the said clamping arm comprising a tubular member 1, and a tubular member 2, which is telescopically disposed in the member 1, and may be extended or drawn inwardly as may be required. A set screw 3 is provided to secure the member 2 at any desired adjustment. The member 1 is provided at what I term its inner end with a sleeve 4, secured thereon, which sleeve has a hook 5 for engagement with one of the hoops of the drum. The member 2 has a sleeve 6 slidable thereon and also provided with a hook for engagement with the other

hoop of the drum. The said member 2 has a screw threaded portion 8 on which operates a winged nut 9, which serves to adjust the sleeve 6 and hold the latter and its hook 7 in any desired adjusted position. The sleeve 4 is provided with a fork 10. A drum beater head 11 is at the outer end of a longitudinally adjustable member 12 of a beater arm 13, which is tubular in form, the said member 12 being also tubular so that it is very light and being telescopically disposed with relation to the member 13. The member 13 is provided with a set screw 14 for engaging the member 12 and securing the latter and hence also the head 11 in any position, to cause the head to operate upon the drum head at any desired point. At the inner end of the beater arm 13 is a cross arm 15, the ends of which are disposed between the ends of the arms of the fork 10. The said cross arm is mounted for rotation on a sleeve 27 which is internally threaded at its ends, and engaged by pivot screws 16, the plane portions of the shanks of which screws have their bearings in transverse openings in the said fork arms. On one side of the cross head at the center thereof, is a projecting cup 28 in which is a closure screw 29. The said cup is for the reception of oil or other suitable lubricant, and supplies the same through an opening 30 to the space between the said sleeve and the said cross arm so as to lubricate the cross arm and enable it to turn easily on the said sleeve. Hence the beater arm is pivotally mounted in the fork of the clamping bar. A rod 32 connects the arms of the fork 10. A spiral spring 17 has its inner end secured to the cross arm 15, and its outer end provided with a hook 33 engaged with the said bar 32, and hence connected thereto, so that the spring exerts its tension on the beater arm to throw the beater head away from the drum head. A tubular holder 18 which is disposed at an appropriate angle to the cross arm 15 has its upper end attached to the cup 28 and its lower end connected to the cross head and the said holder is provided with a set screw 19. The holder 18 may, in practice, be integral with the cross arm or if it is made separate from the cross arm its ends may be attached to the cross arm in any suitable way, such as by soldering them thereto. The tubular holder 18 is, in effect, a projection on one side of the cross arm and provided with a bore which is oblique to the axis of

the cross arm. In practice, the holder may be secured to the cross arm by being soldered or brazed thereto or if preferred it may be made integral with the cross arm.

5 The cymbal beating ball 20 is at the outer end of a bent rod or arm 21, the inner end of which is provided with a right angular extension 22 which may be secured in the holder 18, at either end of the latter, by means of the set screw 19. The holder together with the right angular extension of the cymbal beater arm, enables said arm to be adjusted with respect to the latter so as to assume the position shown in full lines in Fig. 3, or any one of the three positions indicated in dotted lines in the said figure, and hence the cymbal beater arm may be extended either oppositely from the drum beater arm when it is not desired that the cymbal beater arm shall operate in unison with the drum beater arm when both are to operate in unison, and may be adjusted so as to cause its ball 20 to be disposed at various distances from the pivotal axis of the drum beater arm, owing to the angular relation of the holder 18 to the said pivotal axis of the drum beater arm, as will be understood.

The drum beater head 11 is made of solid felt and is provided in its outer side with a centrally disposed recess 23 in which may be placed any desired number of weight washers 24, to weight the said head as may be desired, the weight washers being secured by a screw 25, which also serves to attach an extension 26 to which a cord is connected for operation by a suitable pedal to cause the head 11 to be beaten against the drum head. It will be understood that the cymbal beating arm is operated simultaneously with the drum beating arm, and that it may be adjusted so as to cause its ball 20 to strike the cymbal at any desired point, and to deliver as heavy a blow thereon as may be required.

By turning the cymbal beater arm 21 substantially parallel with the drum beater arm 13, and then securing the same in such position by means of the set screw 19, and then adjusting the member 2 of the clamping arm 1, so as to cause its outer end to bear against one side of the drum beater head 11, and to lie within the extension 26, the device may be compactly disposed as shown in Fig. 4, so that it will occupy but very little space, thus greatly enhancing its portability and enabling it to be readily stored.

The spiral spring is particularly efficient for the operation of the drum beater arm, and the same may be readily disconnected from the fork by disengaging its hook from the cross bar 32. In the event that said spring should become broken and require

to be repaired or renewed, a rubber band may temporarily be substituted therefor for use in operating the drum beater arm, and may be stretched between and engaged with the set screw 3, and the cup 28 as indicated at 34 in dotted lines in Fig. 2.

I claim:—

1. In a drum and cymbal beater, the combination of a member for attachment to a drum, a drum beating arm pivotally connected to the said member and having a holder socket at its inner end disposed obliquely with respect to its pivotal axis and open at both ends, and a cymbal beating arm having a lateral extension at its inner end, the said extension being adapted to be fitted into said socket holder from either end of the holder and to be also adjusted both longitudinally of said holder and angularly therein.

2. In a drum and cymbal beater, the combination of a member for attachment to a drum, provided at its inner end with a fork, a drum beating arm having a cross arm at its inner end pivotally mounted between the arms of the fork, the said cross arm being provided with a holder which has a bearing bore that is disposed obliquely of the axis of the cross arm and is open at both ends, and a cymbal beating arm provided at its inner end with a lateral extension which is adapted to be fitted into the bore of the holder from either end of the holder and to be longitudinally adjusted therein and also adjusted angularly with reference to the holder, and means to secure the extension of the cymbal beating arm at any desired adjustment, in the holder.

3. In a device of the class described, the combination of a member for attachment to a drum and provided at one end with a fork, a drum beating arm provided at its inner end with a cross arm, the said cross arm being pivotally mounted between the arms of the fork, and a spiral spring on the cross arm and having its inner end connected thereto, the coils of the said spring lying in a common plane at right angles to the cross arm, and the outer end of the said spring being connected to one of the arms of the fork, the said spiral spring acting to swing the drum beater arm outwardly.

4. A drum beater of the class described having a drum beater arm, a head having a transverse opening in its inner side in which the outer end of the drum beater arm is fitted, the said head being also provided, in its outer side, with a recess concentric with the drum beater arm, a series of weights in the said recess, an extension to which the operating cord is attached, the said extension bearing on the outer side of the head and also against the outer side of the outermost weight, and a screw extending through the said extension and the said weights and hav-

ing threaded engagement with the outer end of the drum beater arm.

5 In a device of the character described, the combination of a member for attachment to a drum and provided at one end with a fork, a sleeve connecting the arms of the fork, the ends of the sleeve abutting against the inner sides of the fork arms, screws passing through the fork arms and threaded in
10 the ends of the sleeve, a drum beating arm having a tubular cross arm at its inner end

pivotally mounted on the sleeve and abutting at its ends against the inner sides of the fork arms and means to operate the said drum beating arm.

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

GEORGE H. RISLEY.

Witnesses:

SIMON MICHELET,
L. A. LYDIARD.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."