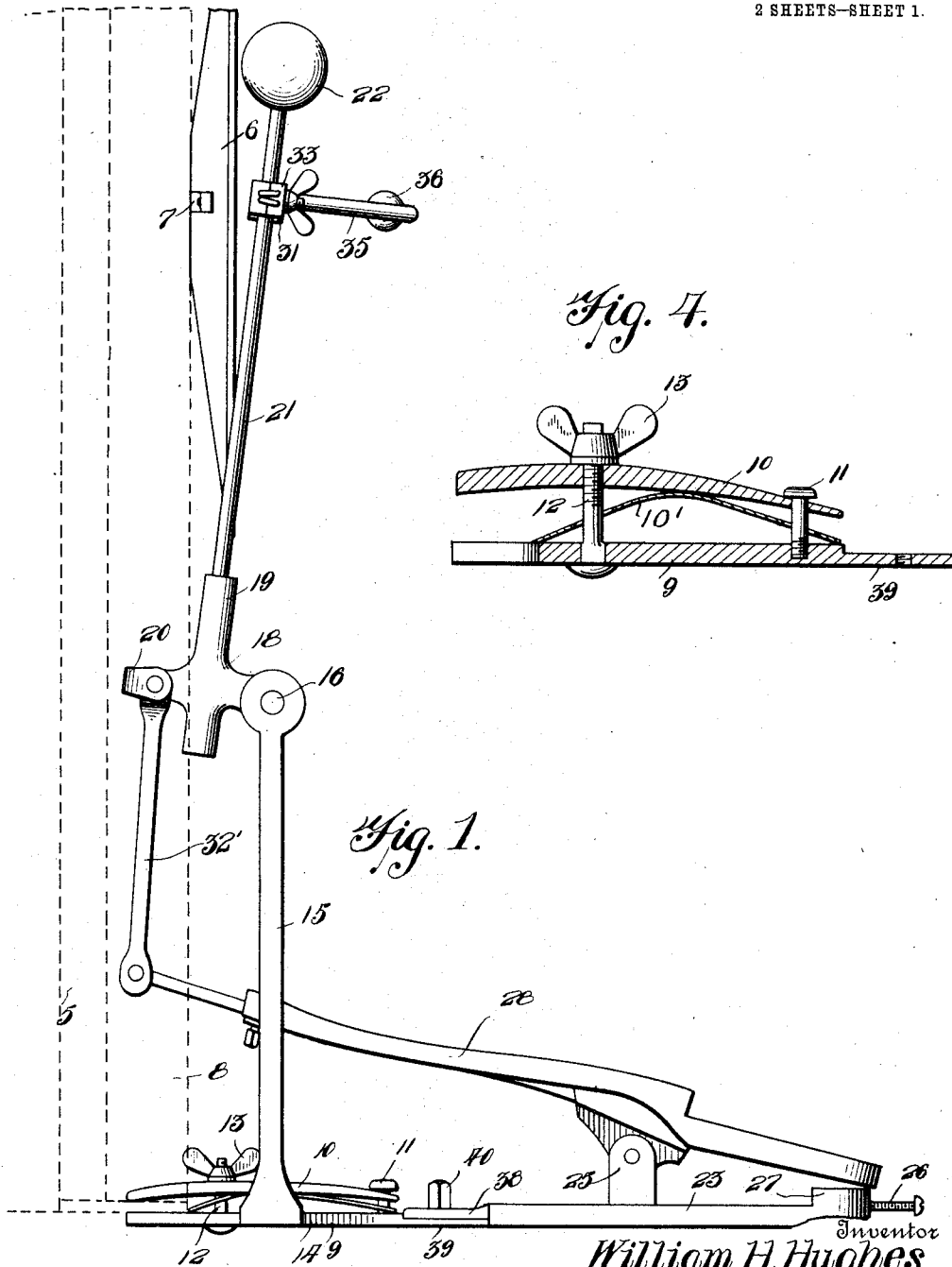


W. H. HUGHES.
 COMBINED DRUM AND CYMBAL BEATER.
 APPLICATION FILED NOV. 29, 1911.

1,042,919.

Patented Oct. 29, 1912.

2 SHEETS—SHEET 1.



Witnesses

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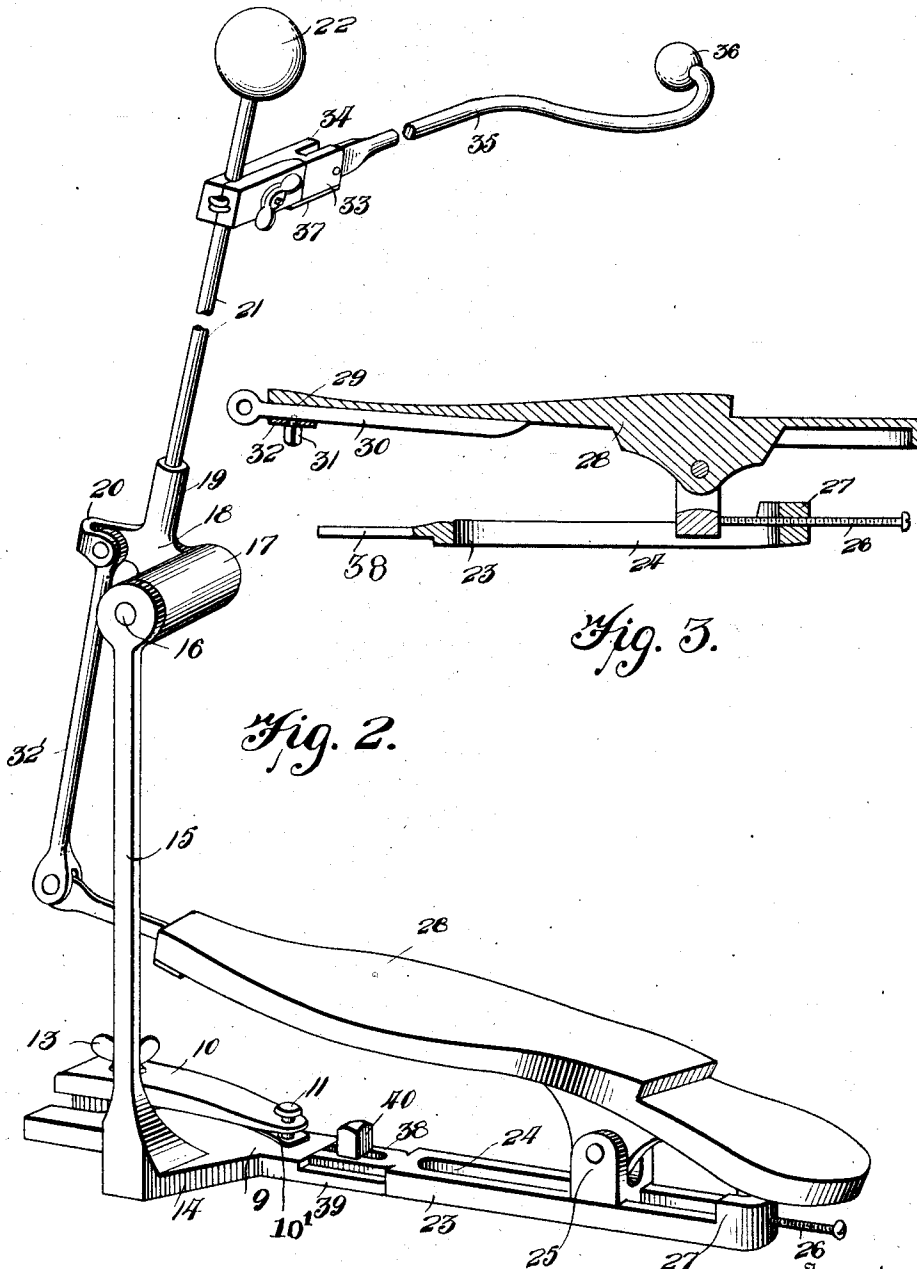


Fig. 2.

Fig. 3.

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UNITED STATES PATENT OFFICE.

WILLIAM H. HUGHES, OF TRENTON, NEW JERSEY.

COMBINED DRUM AND CYMBAL BEATER.

1,042,919.

Specification of Letters Patent.

Patented Oct. 29, 1912.

Application filed November 29, 1911. Serial No. 663,009.

To all whom it may concern:

Be it known that I, WILLIAM H. HUGHES, a citizen of the United States, residing at Trenton, in the county of Mercer and State of New Jersey, have invented new and useful Improvements in Combined Drum and Cymbal Beaters, of which the following is a specification.

The invention relates to a combined drum and cymbal beater, and more particularly to the class of pedal operated beating mechanism for drums and tympanums.

The primary object of the invention is the provision of an attachment of this character in which a bass drum and cymbal may be played by the foot of an operator, thereby permitting the use of the hands of the operator for other purposes.

Another object of the invention is the provision of an attachment of this character in which the position of the foot pedal may be adjusted relative to the beating mechanism, and also the latter adjusted so as to regulate the beating operation thereof. Thus, it will be seen that a bass drum and a cymbal may be simultaneously sounded on an operator working the foot pedal of the beating mechanism.

A further object of the invention is the provision of a device of this character which is simple in construction, reliable and efficient in operation, and inexpensive in manufacture.

With these and other objects in view, the invention consists in the construction, combination and arrangement of parts, as will be hereinafter more fully described, illustrated in the accompanying drawings, and pointed out in the claims hereunto appended.

In the drawings: Figure 1 is a side elevation of a drum and tympanum showing the beating attachment applied thereto constructed in accordance with the invention. Fig. 2 is a perspective view of the attachment removed from the drum. Fig. 3 is a vertical longitudinal sectional view through the pedal. Fig. 4 is a sectional view through the clamp of the mechanism for fastening it in position with respect to a drum.

Similar reference characters indicate corresponding parts throughout the several views of the drawings.

Referring to the drawings by numerals, 5 designates a bass drum of the ordinary well-known construction, and 6 the tympanum, which is also of the ordinary well-

known construction, the same being held upon a bracket 7, which latter is suitably clamped to the hoop 8 of the bass drum, as usual. The beating mechanism comprises a base plate 9, upon which is carried an upwardly arched clamping jaw 10, the latter being loosely connected through the medium of a pin 11 to the said base plate, and between this jaw and the bass plate is inserted the hoop 8 of the drum 5, for the fastening of the beating mechanism thereto. Suitably mounted between the base plate 9 and jaw 10 is an upwardly bowed spring 10' which is adapted to separate said jaw 10 from the base plate 9 on the loosening of the nut 13 on the bolt 12.

Fixed in the base plate 9 and passed upwardly through a suitable opening in the jaw 10 is a screw member 12, on which is threaded a winged nut 13, the latter working against the jaw 10 for forcing the same into clamping engagement with the hoop 8 of the drum.

Projecting laterally from the base plate 9 is a side extension 14, from which rises a vertical upright or standard 15, formed at its upper end with an internally threaded aperture, in which is engaged a stud spindle 16 which is adapted to project therefrom at right angles thereto, and on which is journaled a sleeve extension 17 of a drum beating staff holder 18, having a sleeve 19 at right angles to the sleeve 17 and a crank 20, the sleeve 19 adjustably receiving the beater staff 21 formed with a resilient ball terminal 22 designed as a striker for hitting the drum head for the beating thereof.

Detachably pivoted to one end of the base plate 9 is a laterally swinging pedal support 23 provided with a longitudinal slot 24, in which is arranged a movable bearing 25, the same being connected with an adjusting screw 26 swiveled therein, the screw being threaded in a boss 27 rising from the outer end of the support 23, so that on the turning of the said screw 26 the bearing 25 may be longitudinally adjusted on the support, as may be desired. Pivotally mounted in the bearing 25 is a rocking foot pedal 28, the same being formed at the toe end, in the under face thereof, with a guide channel 29, in which is slidably engaged an extension rod 30, the latter being held in adjusted position by means of a set screw 31 threaded in a bridge plate 32 fixed to the under face of the pedal 28 across the channel 29 therein.

Pivottally connected to the outer end of the extension rod 30 is one end of a link 32', the opposite end of which is pivoted to the crank 20 of the drum beating staff holder 18, so that upon the rocking of the pedal 28 by the foot of an operator, the beating staff 21 will be swung toward and away from the head of the drum 5, so that the striker 22 on the staff 21 will tap the drum, during movement of the pedal 28 by the operator.

Adjustably connected with the beating staff 21 is a clip 33 having a forked outer end 34, in which is pivoted the inner end of an arched arm 35, the same carrying a striking ball 36 at the outer end thereof which is adapted to strike the tympanum or cymbal for the sounding thereof, when the drum is being tapped. Fixed to the clip 33 is a leaf spring 37 which frictionally engages the inner pivoted end of the arm 35, so that the said arm may be swung at right angles to the clip 33 when the tympanum or cymbal is not to be sounded. Normally, the arm 35 is held in alinement with the clip 33, whereby the tapper 36 will strike the tympanum or cymbal for the sounding thereof on the beating of the drum, in a manner as heretofore described. The pedal support 23 is formed with an extension 38 at its inner end adapted to overlap an extension ear 39 formed on one end of the base plate 9 and engaged therein is a set screw 40 which permits the adjustment of the pedal support 23 relative to the base plate 9, when desired.

From the foregoing, taken in connection with the accompanying drawings, it is thought that the construction and operation of the invention will be readily understood, without requiring a more extended explanation.

What is claimed is:

1. In a device of the class described, a pedal support having a guide groove centrally therein, a bearing slidably engaged in said slot, a pedal pivoted in the bearing, an adjusted screw threaded in the outer end of the support and connected to said bearing for adjusting it longitudinally on said support, a standard having a base, means adjustably connecting said base to the support and beating mechanism mounted on the standard and engaged with the pedal.

2. In a device of the class described, a pedal support having a guide groove centrally therein, a bearing slidably engaged in said slot, a pedal pivoted in the bearing, an adjusting screw threaded in the outer end of the support and connected to said bearing for adjusting it longitudinally on said support, a standard having a base, means adjustably connecting said base to the support and beating mechanism pivottally connected to said standard, and an extension bar adjustably mounted on the pedal and pivottally connected with said mechanism.

3. In a device of the class described, a pedal support having a guide groove centrally therein, a bearing slidably engaged in said slot, a pedal pivoted in the bearing, an adjusting screw threaded in the outer end of the support and connected to said bearing for adjusting it longitudinally on said support, a standard having a base, means adjustably connecting said base to the support and beating mechanism pivottally connected to said standard, an extension bar adjustably mounted on the pedal and pivottally connected with said mechanism, and means on the base for clamping engagement with the hoop of a drum.

4. In a device of the class described, a pedal support having a guide groove centrally therein, a bearing slidably engaged in said slot, a pedal pivoted in the bearing, an adjusted screw threaded in the outer end of the support and connected to said bearing for adjusting it longitudinally on said support, a standard having a base, means adjustably connecting said base to the support and beating mechanism pivottally connected to said standard, an extension bar adjustably mounted on the pedal and pivottally connected with said mechanism, means on the base for clamping engagement with the hoop of a drum, an adjustable cymbal sounding device carried by the beating mechanism, and means for holding the cymbal sounding device in operative or inoperative position.

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

WILLIAM H. HUGHES.

Witnesses:

JOHN T. TEMPLE,
CHAS. M. McDERMOTT.