

No. 864,578.

PATENTED AUG. 27, 1907.

R. VOLKWEIN & T. QUINN.
COMBINED DRUM AND CYMBAL BEATER.

APPLICATION FILED APR. 10, 1907.

2 SHEETS—SHEET 1.

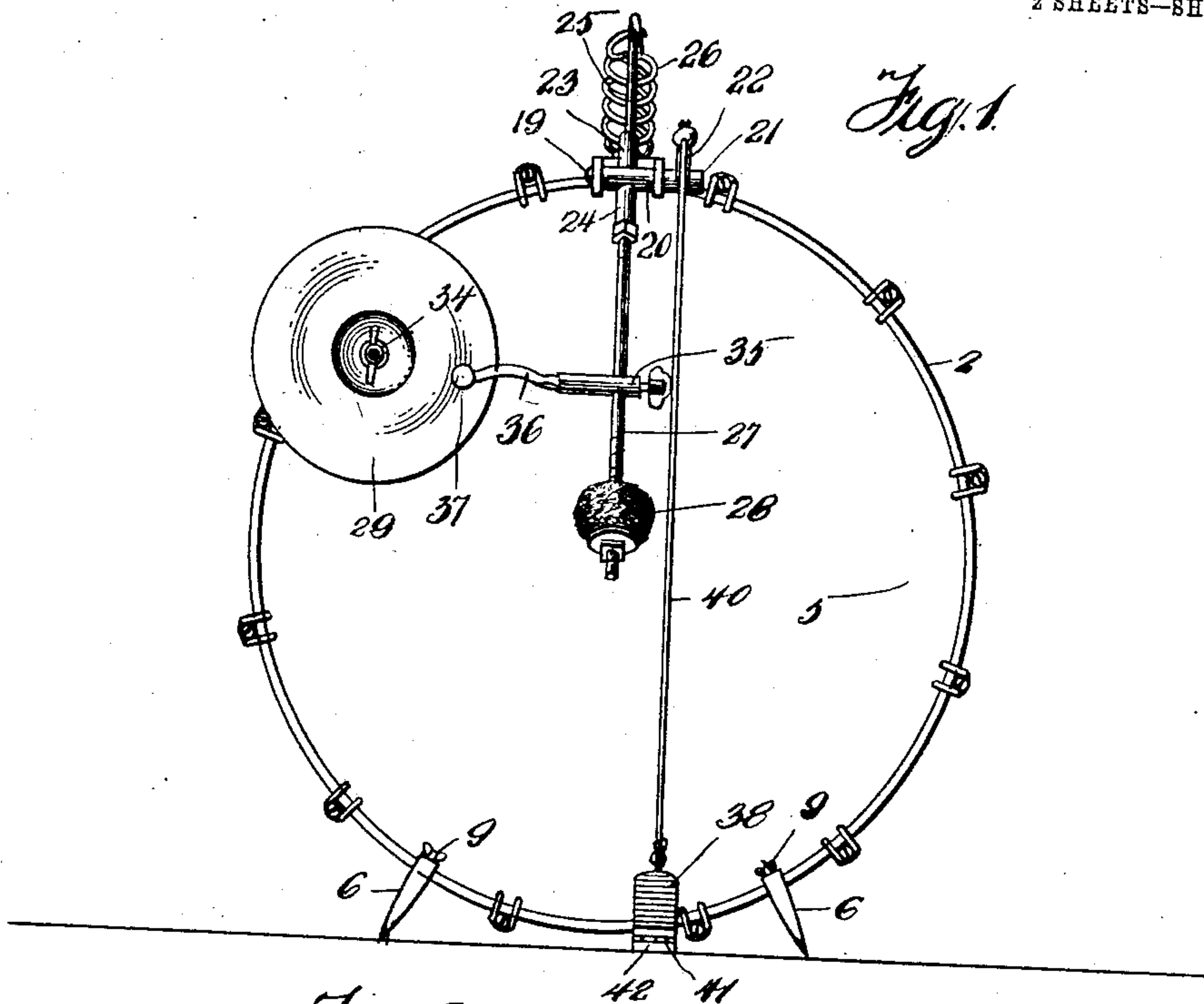


Fig. 1.

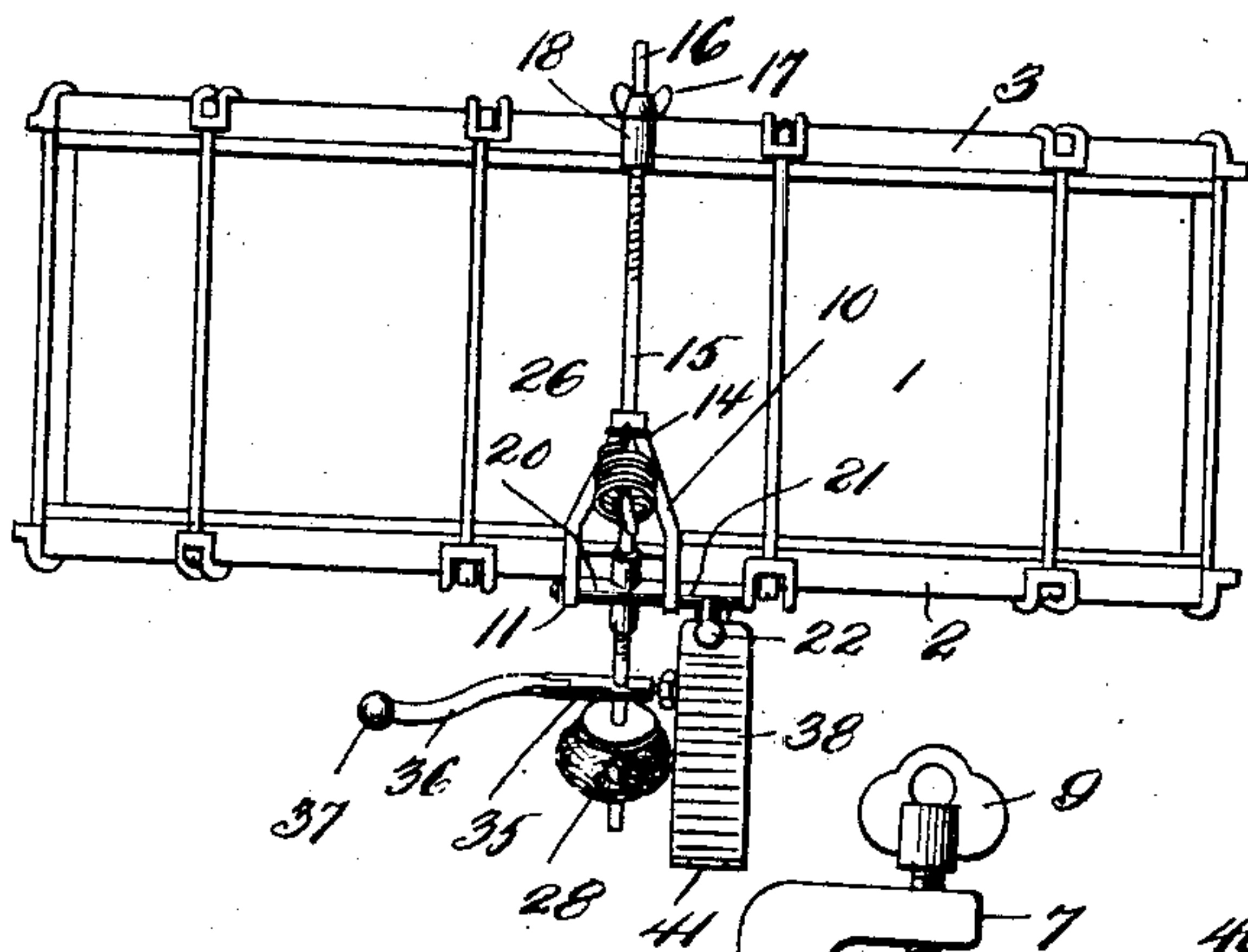
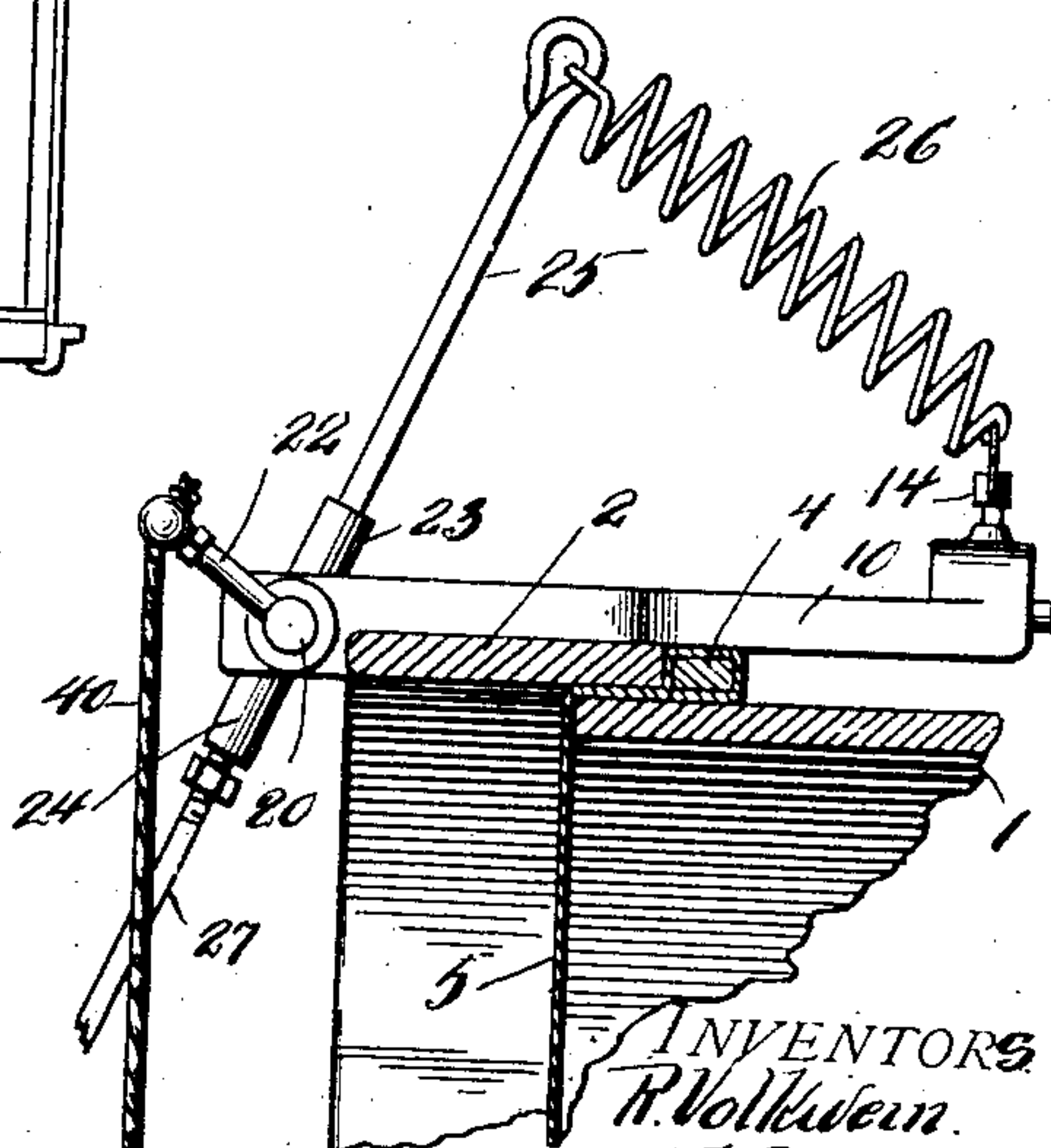


Fig. 2.

Fig. 3.



WITNESSES:

Samuel Payne.

R. H. Butler.

Fig. 3.

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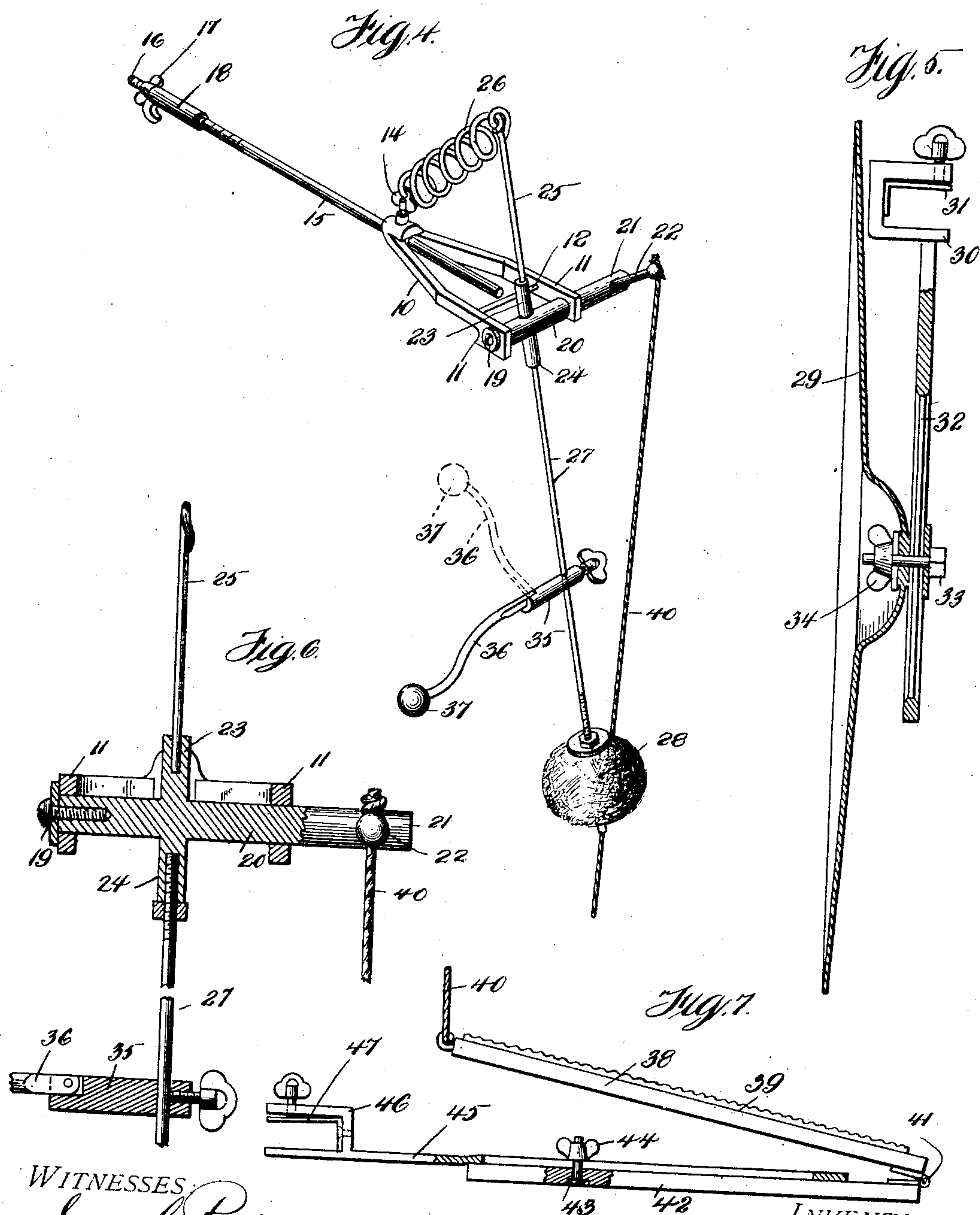
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WITNESSES:

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UNITED STATES PATENT OFFICE.

RUDOLF VOLKWEIN, OF ALLEGHENY, AND THOMAS QUINN, OF PITTSBURG,
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COMBINED DRUM AND CYMBAL BEATER.

No. 864,578.

Specification of Letters Patent.

Patented Aug. 27, 1907.

Application filed April 10, 1907. Serial No. 367,458.

To all whom it may concern:

Be it known that we, RUDOLF VOLKWEIN and THOMAS QUINN, citizens of the United States of America, residing at Allegheny, and Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in a Combined Drum and Cymbal Beater, of which the following is a specification, reference being had therein to the accompanying drawing.

10 This invention relates to a combined drum and cymbal beater, and the invention has for its object to provide a beater that can be easily and quickly attached to drums of various sizes, to simultaneously beat a drum and a cymbal attached thereto.

15 Our invention aims to provide a beater attachment for drums particularly designed for orchestra work, the beater being actuated by a treadle adjustably connected to the base of the drum or a suitable support. To this end, we have devised a beater having novel means, 20 whereby the same can be adjusted to various sized drums and positioned so it may be conveniently operated. Besides adjusting the beater, we adjustably mount the cymbal upon a drum, and in connection with the cymbal and beater employ novel clamps which protect the wood work of the drum and prevent the same 25 from being injured.

The detail construction entering into our invention will be hereinafter more fully described and then specifically pointed out in the appended claims, and referring to the drawing forming part of this specification like numerals of reference designate corresponding parts throughout the several views, in which:—

30 Figure 1 is a side elevation of a drum equipped with our improved beater, Fig. 2 is a plan of the same, Fig. 3 is a fragmentary sectional view of a drum illustrating a portion of the beater in elevation, Fig. 4 is a perspective view of the beater, Fig. 5 is a detail sectional view of a cymbal and its clamp, Fig. 6 is a longitudinal sectional view of a crank shaft used in connection with the 40 beater, Fig. 7 is an elevation of a treadle and its clamp, Fig. 8 is a side elevation of one of the supporting lugs of the drum.

In the accompanying drawings, 1 indicates the shell of a bass drum having rims 2 and 3 and retaining hoops 45 4 for holding the pig skin covers or heads 5 upon the shell of the drum.

To support the drum and prevent the same from moving while being used, we employ pointed legs 6 having arms 7 for embracing the hoops 2 and 3 of the drum. 50 Between the arms 7 is arranged a resilient clamp 8, which is adjusted by a screw 9 arranged in the uppermost arm and engaging said clamp. The arms 7 are made a sufficient distance apart to embrace hooks of a considerable thickness and when the legs are used upon

hoops of less thickness, the clamps 8 are adjusted to engage the hoops and firmly hold the legs thereon. 55

The beater proper consists of a V-shaped frame 10, having hook-shaped arms 11 adapted to embrace the hoop 2. The arms 11 are connected together by a transverse bar 12. In the V-shaped frame 10 is adjustably 60 held by a screw 14, a rod 15, said rod having a threaded end 16 adapted to extend over the hoop 3. Adjustably mounted upon the threaded end of the rod 15 by a winged nut 17, is a clamp 18 adapted to engage the hoop 3 and hold the frame 10 in engagement with the 65 hoop 2.

Journaled in the arms 11 and retained therein by a screw 19 is a crank shaft 20, the protruding end 21 of which is provided with a crank arm 22, while centrally of the arms 11, the shaft is provided with diametrically 70 opposed sockets 23 and 24. Fixed in the socket 23 is an upwardly extending rod 25, said rod having its upper end connected by a coiled spring 26, to the screw 14 carried by the V-shaped frame 10. Adjustably mounted in the socket 24 is a depending rod 27 carrying upon 75 its lower end an adjustable drum-beater 28.

To support a cymbal 29 upon the hoop 2 of the drum, we employ a yoke 30 having an adjustable resilient clamp 31 similar to the clamp 8 of the supporting legs 6. The yoke 30 is provided with a slotted extension 32, and 80 a bolt 33 provided with a winged nut 34 is employed for adjustably holding the cymbal 29 upon the extension.

In order that the drum and cymbal can be simultaneously beaten or sounded, we provide the depending rod 27 with an adjustable sleeve 35 having a pivoted 85 curved arm 36, provided with a knob or enlargement 37 adapted for striking the cymbal 29. When it is desired to beat the drum without sounding the cymbal, the curved arm 36 is swung upwardly to the position illustrated in dotted lines, Fig. 4. 90

In connection with the beater just described, we use a treadle 38 having a corrugated piece of rubber or similar material 39 mounted thereon to prevent an operator's foot from slipping upon the treadle. The outer end of the treadle is connected by a cable 40 to the 95 crank arm 22 of the shaft 20, while the opposite end of the treadle 38 is hinged, as at 41, to a plate 42 adapted to rest upon the floor or same support as the drum. The plate 42 is provided with a threaded bolt 43 and a winged nut 44, whereby said plate can be adjustably 100 connected to the slotted extension 45 of a yoke 46, said yoke being adapted to embrace the hoop 2 of the drum and be held in engagement therewith by an adjustable resilient clamp 47 similar to the clamps 8 and 31 previously described. By using the slotted extension 45, 105 the plate 42 can be adjusted at any desired angle to the drum, whereby an operator can sit directly in front of the drum or at one side thereof.

In operation, it is only necessary for the operator to press upon the treadle 38 and oscillate the shaft 20 to cause the drum-beater 28 to strike the head of the drum, and the sounding of the cymbal 29 depends upon the position of the curved arm 36. The oscillating shaft 20, treadle 38, and their appurtenant parts are returned to their normal position by the coiled spring 26 arranged above the V-shaped frame 10.

From the novel construction of our improved beater it will be observed that the same can be easily and quickly attached to a drum, the clamps which we employ permitting of the beater attachment being used in connection with various sized drums. The beater attachment is constructed of light and durable metal that can be nickle plated or otherwise finished to present a neat appearance.

The novel adjustments of the beater permit of the cymbal, treadle and beater arms and rods being adjusted to strike the drum and cymbal at the most advantageous point, whereby a clear and voluminous sound will be thrown off by the cymbal and drum.

What we claim and desire to secure by Letters Patent, is:—

1. In a drum beater, the combination with a suitably supported drum, of a cymbal adjustably carried by said drum, a treadle adjustably connected to said drum, a V-shaped frame clamped to the hoops of said drum, an oscillating shaft journaled in said frame, crank arms carried by said shaft, a rod carried by one of said arms, a spring connecting said rod with said frame, a depending adjustable rod carried by one of the other of said arms; a drum-beater adjustably mounted upon the lower end of said rod, a sleeve adjustably mounted upon said rod, a cymbal beater pivotally connected to said sleeve and adapted to strike said cymbal, and a cable connecting said treadle with the other of said crank arms.

2. The combination of a drum, a cymbal adjustably carried thereby, a treadle adjustably connected to said drum, a V-shaped frame clamped upon the rims of said drum, an oscillating shaft journaled in said frame, a crank arm carried by said shaft and connected with said treadle, a depending adjustable rod carried by said shaft, a drum-beater adjustably mounted upon the lower end of said rod, a sleeve adjustably mounted upon said rod, a curved arm constituting a cymbal beater pivotally carried by said

sleeve for striking said cymbal, and means arranged above said frame for normally holding the drum-beater and cymbal-beater out of engagement with the drum head and cymbal, respectively.

3. The combination of a drum, a cymbal adjustably connected thereto, a treadle adjustably connected to said drum, a frame clamped upon the hoops of said drum, an oscillating shaft journaled in said frame, a crank arm carried by said shaft and connected with said treadle, a depending beater rod carried by said shaft, a drum-beater carried by said beater-rod, a curved beater arm adjustably mounted upon said beater rod and adapted to strike said cymbal, and means arranged above said frame for normally holding said shaft and beater-rod in position to maintain the drum-beater and beater arm out of engagement with the drum and cymbal, respectively.

4. The combination of a drum, a cymbal adjustably clamped thereto, a frame clamped upon the hoops of said drum, an oscillating shaft journaled in said frame, and provided at one end with a crank-arm, a depending beater rod carried by said shaft, a drum-beater adjustably mounted on said beater-rod, a pivoted beater arm adjustably carried by said rod and adapted to strike said cymbal, a treadle for oscillating said shaft, and a spring connected at one end to the upper end of said beater-rod and at its other end to said frame for normally holding the beater-rod in such position that the drum-beater and pivoted beater-arm are out of engagement with the drum and cymbal, respectively.

5. The combination of a drum, a cymbal adjustably clamped thereto, a frame clamped upon the hoops of said drum, an oscillating shaft journaled in said frame and provided with a crank-arm, a depending beater-rod carried by said shaft, a drum-beater adjustably mounted on said beater-rod, a pivoted beater-arm adjustably-carried by said rod and adapted to strike said cymbal, a base-plate, a clamp engaging a hoop of the drum and adjustably connected to said base-plate, a treadle hinged to said base-plate, a cable connecting said treadle and the crank-arm of said oscillating shaft, and a spring for normally holding the beater-rod in position to retain the drum-beater and pivoted beater-arm out of engagement with the drum and cymbal, respectively.

In testimony whereof we affix our signatures in the presence of two witnesses.

RUDOLF VOLKWEIN.
THOMAS QUINN.

Witnesses:

H. C. EVERT,
MAX H. SROLOVITZ.