Jan. 21, 1930. J. A. MEYER 1,744,483

DRUM ACCESSORY

Filed Jan. 21, 1928

Fig. 1.

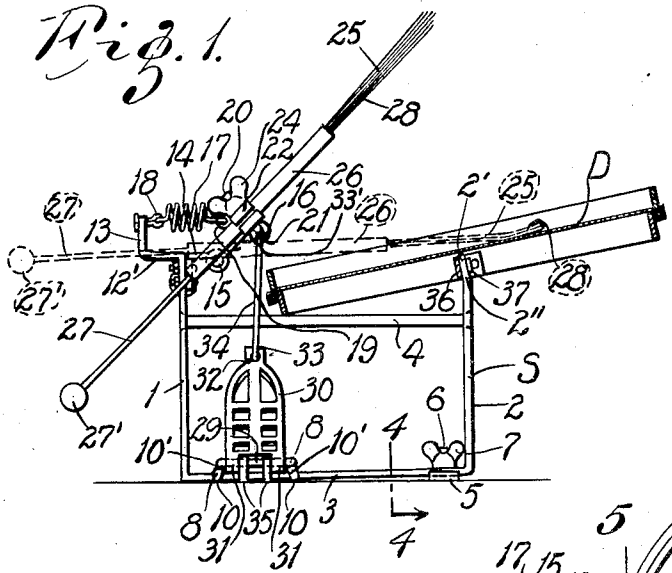


Fig. 3.

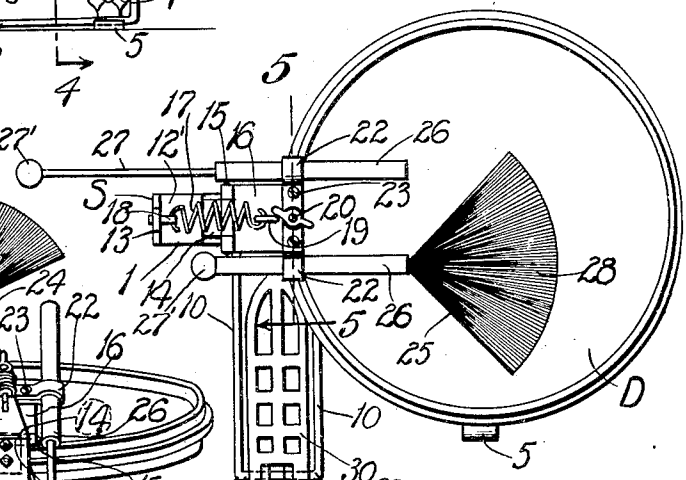


Fig. 2.

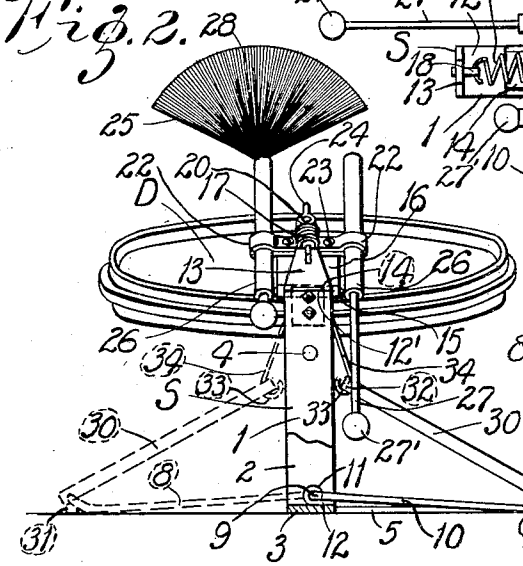


Fig. 5.

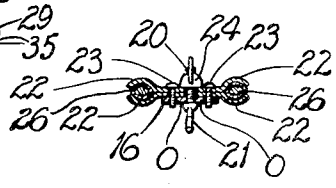


Fig. 4.

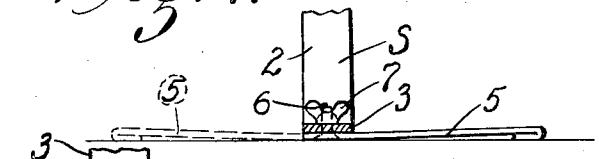
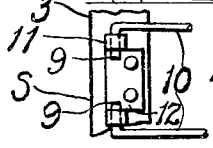


Fig. 6.



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UNITED STATES PATENT OFFICE

JULIUS A. MEYER, OF ST. LOUIS, MISSOURI

DRUM ACCESSORY

Application filed January 21, 1928. Serial No. 248,393.

My invention has relation to improvements in drum accessories, that is, auxiliary apparatus used by the drummer of an orchestra for obtaining unusual tonal effects, and it consists in the novel features of construction more fully set forth in the specification and pointed out in the claims.

The principal object of the invention is to provide a pedal operated device comprising a drum (or cymbal) and beaters therefor, whereby what is known as the after-beat in jazz music may be effected. The same device may be used for effecting swishing sounds used in imitating certain devices such as locomotives. While the specific form of beater employed in my device is not new, the mounting of the beater or pairs of beaters so that they may be operated by the foot, together with the apparatus whereon the beater and drum are mounted, are to my knowledge new and constitute my invention. A further object is to construct the apparatus so that it may be quickly taken apart and collapsed to facilitate the handling thereof. Further advantages will be better apparent from a detailed description of the invention in connection with the accompanying drawings, in which:

Figure 1 is an elevational view of the apparatus with the beaters shown in normal elevated position in full lines, and in striking position in dotted lines; Fig. 2 is an elevational view taken at right angles to Fig. 1 and part of the supporting standard broken away; Fig. 3 is a top plan of the invention; Fig. 4 is a cross-sectional detail taken on the line 4—4 of Fig. 1; Fig. 5 is a cross-sectional detail taken on the line 5—5 of Fig. 3; and Fig. 6 is a detail of the hinged end of the pedal yoke.

Referring to the drawings, S represents a U-shaped supporting standard comprising uprights 1 and 2 connected by a horizontal component 3, the uprights 1 and 2 being stiffened by a bar 4 extending between them near their upper ends and fixed in said uprights. A laterally projecting foot 5 is removably secured to the horizontal component 3 near the upright 2 by means of a countersunk screw 6 and wing nut 7, and a pedal yoke 8 is secured to the horizontal component 3 near the upright 1 by having the inwardly turned extremities 9, 9 of yoke members 10, 10 inserted in eyes or perforated lugs 11, 11 projecting upwardly from a plate 12 which is permanently secured to component 3. The upper end of upright 1 is bent outwardly at 12′ and upwardly to form a tapered finger 13, and secured to the upright at the base of the horizontal portion 12 is a bracket hinge 14 to which is hinged by means of a pin 15 a plate 16. The plate 16 is maintained in elevated position by means of a coiled spring 17, one end of which is secured in an eye 18 projecting from finger 13 and the other end secured in an eye 19 projecting from plate 16. A stud 20 terminating at one end in an eye 21 is permanently fixed in the plate 16 near its free end with the eye 21 on the under side of the plate and a clamp comprising a pair of members 22, 22 secured together by means of screws 23, 23 is mounted on the stud 20 and secured in place by means of a wing-nut 24. Obviously, the plate 16 is provided with perforations *o* through which project the screws 23, 23, thereby firmly holding the clamp against rotating. The clamp 22, 22 serves as a holder for beaters 25, 25, the ends of clamp members 22, 22 being shaped to firmly engage the tubes 26, 26 in which the beaters 25 are mounted. Each beater 25 comprises a rod 27 on one end of which is fixed a ball 27′ and on the other end a bunch of wires or brush 28 adapted to spread on being ejected from the tube 26. No claim is made to the beater element per se, as beater elements have been used by manual manipulation heretofore.

The members 10, 10 of pedal yoke 8 are connected by a transverse member 29 on which is hinged a pedal 30, said pedal being provided with perforated ears 31, 31 in spaced relation through which the member 29 passes. The inner end of pedal 30 is tapered and is provided with an opening 32 to receive a hook 33 at one end of a link 34, the other end of said link being connected by means of an open eye 33′ to the eye 21 on stud 20. It will be observed that the outer end of yoke members 10, 10 are curved slightly upwardly at 10′, 10′

so that the pedal will be elevated from the floor, and a pair of perforated blocks 35, 35 are mounted on the yoke member 29 and serve to support the outer extremity of the pedal 30. The upper end 2′ of upright 2 is bent slightly toward upright 1 and is adapted to receive on it a drum D (or cymbal if desired), the drum being provided with a cross bar 36 and strap 37 secured thereto between which the extremity 2′ enters. The drum D is thus firmly impaled on the upright 2 since it is prevented from slipping downwardly by the angle 2″ formed by the inwardly bent extremity 2′.

In the operation of my drum accessory, the drummer determines whether he wishes to strike the drum with the balls or with one ball and one brush, and adjusts the beaters in the clamp 22, 22 accordingly, after which, as the necessity arises, he merely actuates the pedal 30 with his foot to effect the desired sounds. Upon releasing the pedal 30, the spring 17 will, of course, retract the plate or beater carrier 16. It will be observed that the pedal yoke 8 may be readily disengaged from the perforated lugs 11, 11 by pressing outwardly on the arms 10, 10 and that the hook 33 may be easily disengaged from the pedal 30, and the operator thereby enabled to shift the pedal 30 to the opposite side of the standard S should he find it more convenient to operate the device in this manner. The apparatus may be easily dismantled and quickly collapsed for carrying by simply performing the following operations after having removed the drum D:—

The wing-nut 7 is loosened and the foot 5 swung into alinement with component 3, the wing-nut being then again fastened, the pedal 30 disengaged from the hook 33 allowing the inner end of the pedal to fold flat against the yoke 8 and the pedal and yoke assembly swung upwardly against the rod 4 in substantial parallelism with uprights 1 and 2, and the beater clamp removed from the beater holder 16 by merely unscrewing the wing-nut 24. After these operations have been performed, the entire apparatus occupies but a comparatively small space and may be conveniently packed in a case or wrapped.

Having described my invention, I claim:

1. A drum accessory comprising a standard having spaced apart uprights, one of said uprights being adapted for supporting, a drum in a substantially horizontal plane, a beater for the drum hingedly mounted on the other upright, a movable foot detachably secured to said standard, a pedal yoke connected to the standard and extending laterally therefrom, a pedal hinged to said yoke and adapted for connection with the beater, said yoke and pedal being collapsible for folding against the standard.

2. A drum accessory comprising a standard having spaced apart uprights, one of said uprights being adapted for supporting a drum in a substantially horizontal plane, a beater holder having hinged connection with the other upright, pedal means for actuating the beater holder, and a beater removably mounted on said beater holder.

3. A drum accessory comprising a standard having spaced apart uprights, one of said uprights being adapted for supporting a drum, a beater holder having hinged connection with the other upright, a clamp removably secured to said beater holder, a pair of beaters firmly held in spaced relation by said clamp, and spring and pedal means for actuating the beater holder.

4. A drum accessory comprising a standard having spaced apart uprights, one of said uprights being adapted for supporting a drum, a beater holder having hinged connection with the other upright, a pair of perforated lugs on the base of said standard, a pedal yoke adapted for either right or left hand hinge connection with said lugs, and a pedal connected to said pedal yoke and beater handle and adapted for treadle action for oscillating the beater handle to strike said drum.

5. A drum accessory comprising a standard having spaced apart uprights, one of said uprights being adapted for supporting a drum, the other upright having a hinge bracket secured to it near its upper end, a beater holder hingedly connected to said hinge bracket, a coiled spring connected between the upright and beater holder, a clamp removably secured to said holder, a pair of beaters frictionally engaged in spaced relation by the clamp members, a pedal connected to said standard and adapted for treadle action, and a connecting link between said pedal and beater holder.

In testimony whereof I hereunto affix my signature.

JULIUS A. MEYER.