

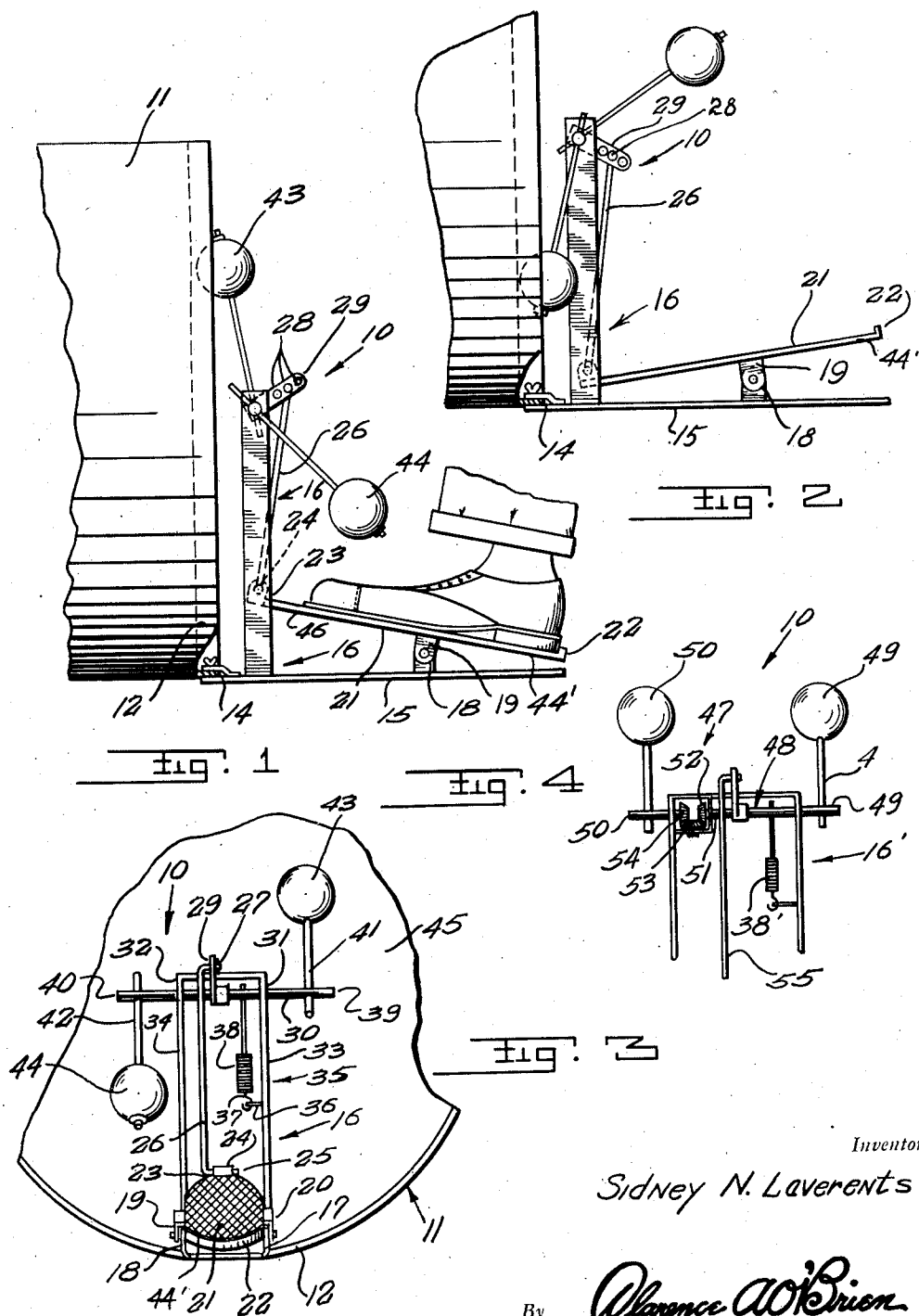
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DOUBLE-ACTION BASS DRUM PEDAL

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DOUBLE-ACTION BASS DRUM PEDAL

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2 Claims. (Cl. 84-422)

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My invention as described herein, and illustrated in the accompanying drawings, consists of a drum pedal, an object of which is to provide means for alternate heel and toe action of the drummer.

Another object of my invention is to provide a drum beating action through which alternate beats are accomplished by alternate leg muscles of the operator, thus overcoming leg strain and fatigue.

A further object of this invention is to provide a beater operating pedal action mechanism controlled through alternate heel and toe movement of a drummer.

Other features and advantages will become more readily apparent from the following description and the accompanying illustrative drawings in which:

Figure 1 is a side elevational view of my pedal action,

Figure 2 is a similar view illustrating a different action,

Figure 3 is a front elevational view of the device, and

Figure 4 is a broken away front elevational view of a modification.

While one embodiment of my invention is illustrated in the above referred to drawings, it is to be understood that they are merely for the purpose of illustration and that various changes in construction may be resorted to in the course of manufacture in order that the invention may be utilized to the best advantage according to circumstances which may arise, without in any way departing from the spirit and intention of my device, which is to be limited only in accordance with the appended claims. And while I have stated the primary field of utility of my invention it remains obvious that it may be employed in any other capacity wherein it may be found applicable.

In the accompanying drawings, and in the following specification, the same reference characters are used to designate the same parts and elements throughout and in which 10, refers to my invention, and 11, indicates a bass drum to the rim 12, of which is attached by a clamp 14, the base 15, of a frame 16, provided with fulcrums 17 and 18, to which is pivotal-connected the depending ears 19 and 20, of a pedal 21, having a heel rest 22.

To the forward or toe end 23, of the pedal 21, is pivotally connected at 24, the right angular lower end 25, of a link rod 26, the upper angular end 27, of which is pivotally connected in one of a series of apertures 28, of a lever 29, which is

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fixed to a transverse shaft 30, pivotally supported in the upper ends 31 and 32, of the upright arms 33 and 34, of the inverted U-shaped member 35, of frame 16. To the arm 33, is connected a bracket 36, to which is secured one end 37, of a coil spring 38, the other end of which is secured to the shaft 30, whereby the shaft is held in a normal position.

Secured to the outer ends 39 and 40, of the shaft 30, are the lever arms 41 and 42, of beaters 43 and 44, the former being upright and the latter downright, whereby when the heel end 44', of pedal 21, is pressed down (as shown in Figure 1) the link 26, raises lever 29, and rotates shaft 30, toward the drum head 45, causing beater 43, to strike the head. However, when the toe end 23, of the pedal is pressed down, the link 26, draws lever 29, down rotating shaft 30, in an opposite direction which draws beater 43, away from the drum head and causes beater 44, to strike the same (see Figure 2). Thus the same rocking motion of the foot formerly producing one beat on the drum with my device causes two beats resulting in one half the foot work required for two beats and the alternate use of separate sets of muscles of the leg and foot, whereby muscle strain and tiring of the leg and fatigue of the operator is very greatly relieved, especially in the performance of modern dance music in which most of the time four complete beats per measure of music is required on the bass drum, which in fast time is difficult to accomplish and very tiring.

In Figure 4 of the drawings I illustrate a modification of the action 47, in which the shaft 48, is such that the beaters 49 and 50, are both supported in upright position whereby the drum head may be struck adjacent the same point or at its central portion. To obtain this result the shaft 48, is in two sections 49 and 50, and to the inner portion 51, of section 49, is fixed a bevel gear 52, which drives a transmission gear 53, which in turn operates gear 54, fixed on the shaft section 50, whereby when link 55, is operated in either direction the sections 49 and 50, of the shaft 48, will be rotated in opposing directions causing one beater to strike the drum while the other beater moves away from the drum head.

It is thought that persons skilled in the art to which the invention relates will be able to obtain a clear understanding of the invention after considering the description in connection with the drawings. Therefore, a more lengthy description is regarded as unnecessary.

Changes in shape, size and rearrangement of

details and parts such as come within the purview of the invention claimed may be resorted to, in actual practice, if desired.

Having now described my invention that which I claim as new and desire to procure by Letters Patent is:

1. A double-action bass drum pedal comprising a rockable pedal, a shaft, beaters carried by said shaft, a lever carried by the shaft, a link connecting said pedal to said lever, a spring control for said shaft, means for adjusting the action of said shaft, said shaft including a pair of aligned sections having spaced inner end portions, a drive gear carried by the inner end portion of one of the sections, a driven gear carried by the inner end portion of the remaining section, and means operatively connecting the driven gear to the drive gear for rotation of said sections in an opposite direction.

2. A double-action bass drum pedal comprising a rockable pedal, a shaft, beaters carried by said shaft, a lever carried by the shaft, a link connect-

ing said pedal to said lever, a spring control for said shaft, means for adjusting the action of said shaft, said shaft including a pair of aligned sections having spaced inner end portions, a beveled drive gear carried by the inner end of one of said sections, a beveled driven gear carried by the inner end of the remaining section and oppositely disposed relative to the drive gear, and a transmission gear engaging said drive gear and said driven gear.

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