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C. H. STRUPE

1,804,128

DRUM PEDAL

Filed July 7, 1928

Fig. 1.

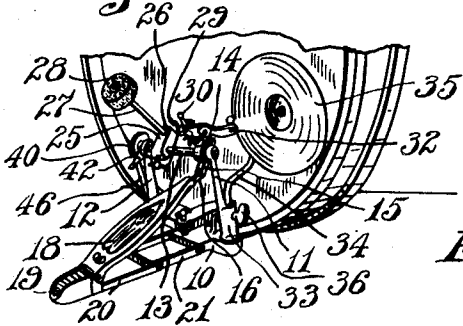


Fig. 2.

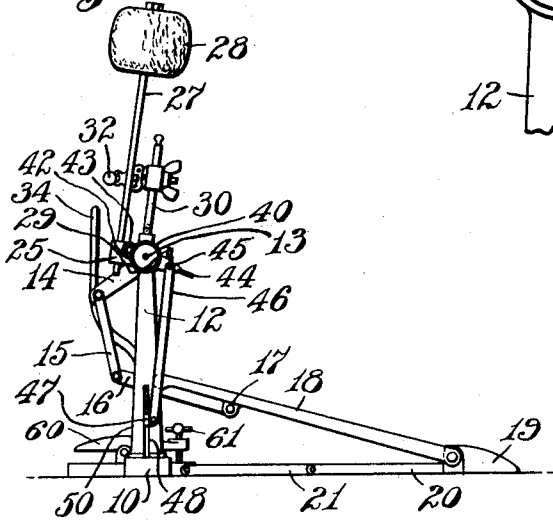


Fig. 3.

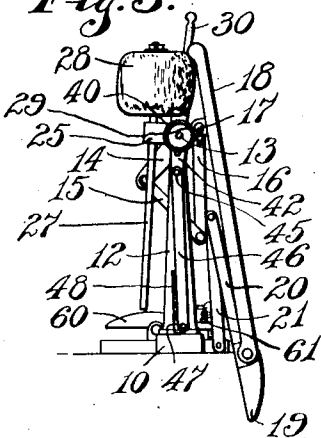


Fig. 5.

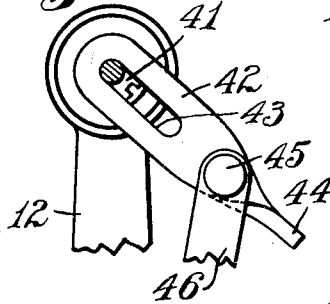


Fig. 4. $\frac{41}{1}$ $\frac{40}{1}$

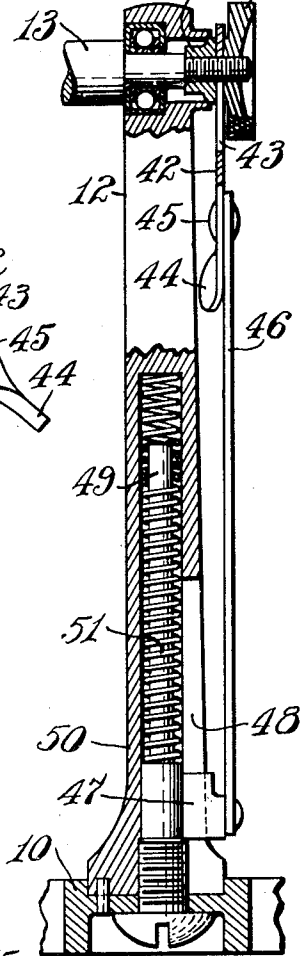
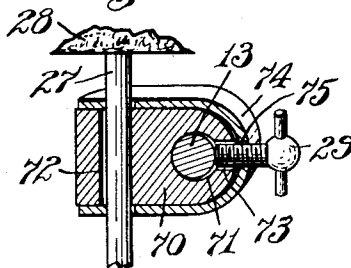


Fig. 6.



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DRUM PEDAL

Application filed July 7, 1928. Serial No. 290,918.

The object of my invention is to provide a bass-drum pedal of such character that the resistance to the player's foot may be accurately adjusted to suit the player; of such character as to support and act upon a cymbal; and of such character as to be quickly compacted for transportation.

The accompanying drawings illustrate my invention;

Fig. 1 is a perspective view of my device associated with a drum;

Fig. 2 a side elevation of the device in operative position;

Fig. 3 a side elevation of the device compacted for transportation;

Fig. 4 a vertical section, on a larger scale, of one of the shaft pedestals;

Fig. 5 a fragmentary transverse section showing the adjustable lever-arm connection between the beater shaft and spring; and

Fig. 6 is a sectional view through the beater arm and carrier.

In the drawings 10 indicates a suitable base carrying two shaft pedestals 11 and 12 in the upper ends of which is journaled the beater shaft 13. Secured to shaft 13, between the pedestals is an arm 14 to the outer end of which is pivoted a link 15. To the lower end of link 15 is pivoted the outer end of a link 16 the inner end of which underlies and is pivoted at 17 to the foot plate 18 the outer lower end of which is pivoted to the heel-plate 19. Extending from heel-plate 19 toward base 10 are two parallel rigid fingers 20, 20 about half the length of foot plate 18, the ends of which are pivotally connected to spreader links 21, 21 which are also pivotally connected to the base 10, the arrangement being such that the parts may be extended to the playing position shown in Fig. 2, or folded into compact relation as shown in Fig. 3.

Mounted upon shaft 13, between the pedestal 12 and arm 14 is a beater-arm carrier 25 perforated at 26 to receive the stem 27 of a beater head 28, the stem being held at any desired effective length by thumb screw 29.

Also secured to shaft 13 is a stem 30 to which is adjustably clamped a cymbal beater

32. Pedestal 11 is provided with a vertical socket 33 in which is clamped the lower end of cymbal stem 34 to the upper end of which is secured cymbal 35. Stem 34 is rotatably and vertically adjustable in socket 33 by means of thumb screw 36.

Shaft 13 is journaled in the pedestals by means of ball bearings, as indicated in Fig. 4, and at one end the shaft is threaded to receive a thumb nut 40 arranged to coact with a collar 41. Between collar 41 and nut 40 is an arm 42, slotted at 43 to receive the threaded portion of shaft 13 and formed at its free end into a finger-piece 44. Pivoted to arm 42, at 45, is the upper end of a link 46 the lower end of which is pivoted to a head 47 slidably mounted in slot 48 of pedestal 12. Head 47 carries a stem 49 arranged within base 50 of pedestal 12 and a spring 51, surrounding the stem and within the base, urges the head downwardly.

By reason of slot 43, arm 42 may be clamped to shaft 13 at any desired angle, relative to arm 14, and so as to space point 45 at various distances from the shaft 13 so that the effect of spring 51 upon shaft 13 in opposition to any force applied to the shaft 13 through the foot plate 18 may be nicely adjusted, both as to force and amplitude of movement of the spring, to suit the player. The player is thus able to obtain variations of effect of the beater head on the drum which would not be possible without this adjustment.

Pivoted on base 10 is a clamping jaw 60 provided with a clamping screw 61 by means of which the device may be firmly clamped to the drum ring as shown in Fig. 1.

The beater arm carrier 25 comprises a main block 70 (Fig. 6) perforated at 71 to receive shaft 13, and at 72 to receive the beater head stem 27, and at 73 to permit the passage of the inner end of thumb screw 29 into perforation 71. Sleeved over block 70 is a yoke 74 the arms of which are perforated to aline with perforation 72 and threaded at 75 to receive thumb screw 29, the arrangement being such that the position of the beater head may be adjusted,

relative to the drum head, by shifting it either axially or transversely, or angularly of shaft 13, the single thumb screw clamping it firmly in desired position.

I claim as my invention:

- 5 1. A drum pedal comprising a base, a shaft journaled thereon, a beater head carried by said shaft, a foot plate connected to the shaft to rock the same, a spring, and
10 a connection between said spring and shaft to bias the shaft in opposition to the foot plate, said connection being of such character that the effectiveness of the spring upon the shaft may be varied in both force and
15 amplitude.
2. A drum pedal comprising a base, a shaft journaled thereon, a beater head carried by said shaft, a foot plate connected to the shaft to rock the same, a spring, and
20 a connection between said spring and shaft to bias the shaft in opposition to the foot plate, said connection being of such character that the effectiveness of the spring upon the shaft may be varied in amplitude.
- 25 3. A drum pedal comprising a base, a shaft journaled thereon, a beater head carried by said shaft, a foot plate connected to the shaft to rock the same, a spring, and
30 a connection between said spring and shaft to bias the shaft in opposition to the foot plate; said connection comprising an arm radially and rotatably adjustable relative to the shaft.
4. A drum pedal comprising a base, a
35 shaft journaled thereon, a beater head carried by said shaft; a foot plate connected to the shaft to rock the same, a spring, and a connection between said spring and shaft to bias the shaft in opposition to the foot
40 plate, said connection comprising an arm rotatably adjustable relative to the shaft.
5. A drum pedal comprising a base, a shaft journaled thereon, a beater head carried by said shaft, a foot plate connected
45 to the shaft to rock the same, a spring, and a connection between said spring and shaft to bias the shaft in opposition to the foot plate, said connection comprising an arm radially adjustable relative to the shaft.
- 50 6. A drum pedal comprising a rock-shaft, supporting means therefor, a foot plate and connections between the foot plate and shaft by means of which the shaft may be rocked, a beater arm carrier axially
45 movable on the shaft, and means for holding said carrier in desired positions of adjustment on the shaft.
7. A drum pedal comprising a base, a
60 rock-shaft journaled thereon, means by which said shaft may be rocked, a beater-arm, and a beater arm carrier comprising a block perforated to receive the shaft and the stem of the arm and slidable on the shaft, a yoke sleeved on the block and perforated
95 to receive said stem, and a thumb-screw

threaded through the yoke and engaging the shaft, substantially as described.

In witness whereof, I, CECIL H. STRUPE, have hereunto set my hand at Indianapolis, Indiana, this 3rd day of July, A. D. one
70 thousand nine hundred and twenty-eight.

CECIL H. STRUPE.

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