Oct. 15, 1968 C. DELLA-PORTA 3,405,588

SNARE DRUM STANDS

Filed May 17, 1967 2 Sheets-Sheet 1

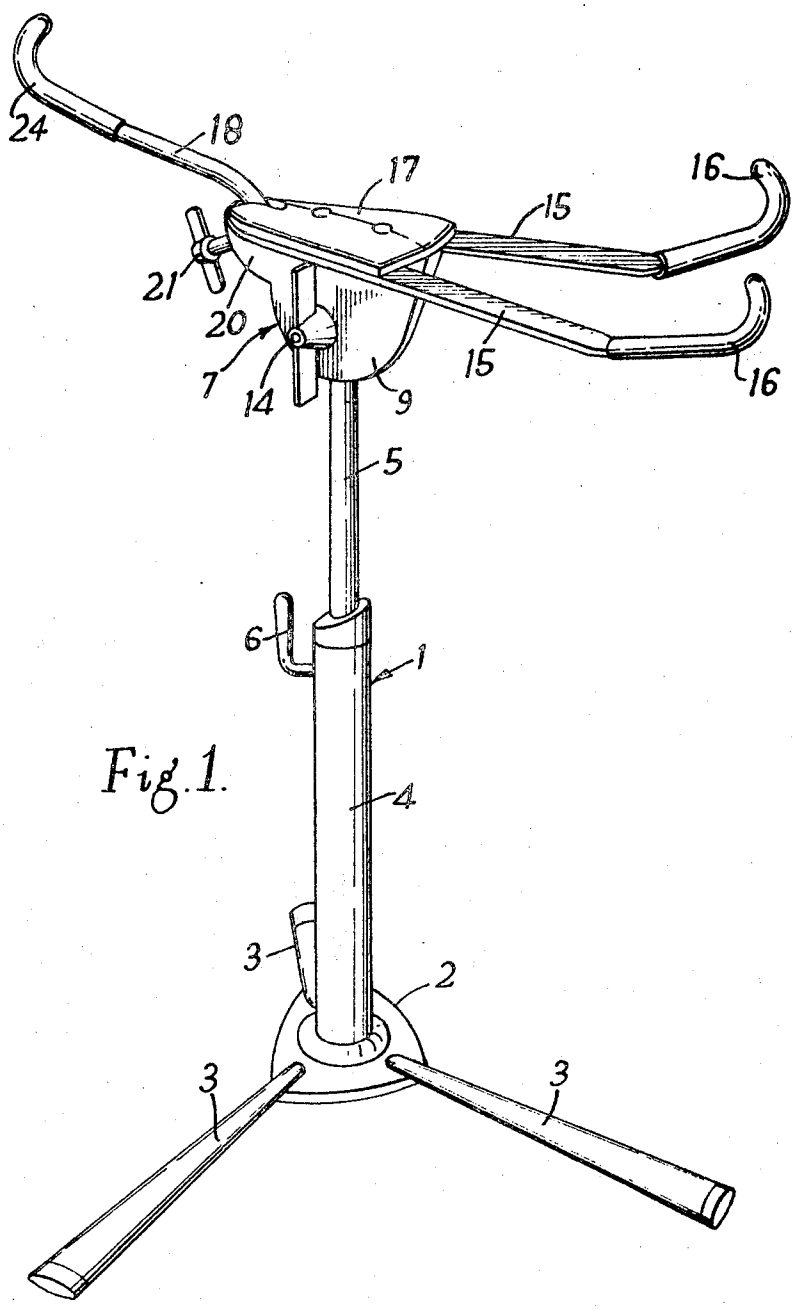


Fig. 1.

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SNARE DRUM STANDS

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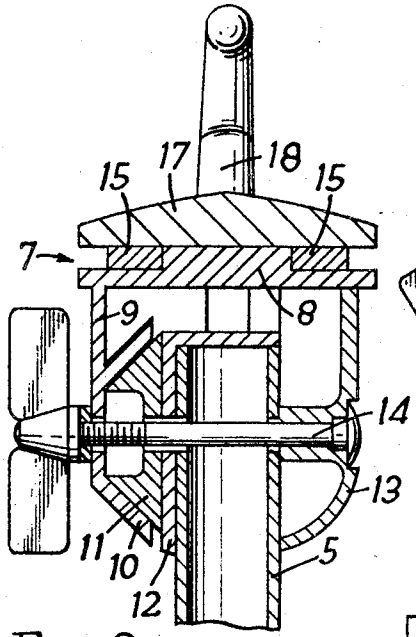


Fig. 2.

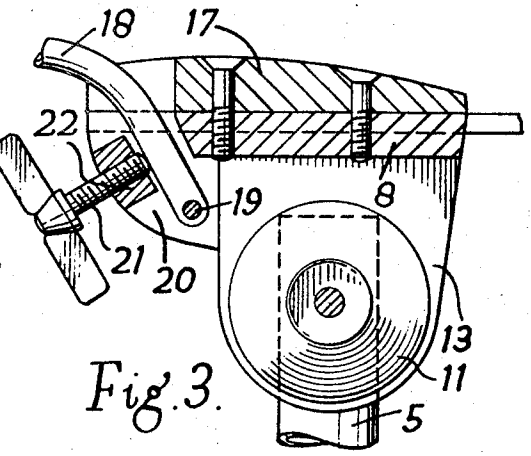


Fig. 3.

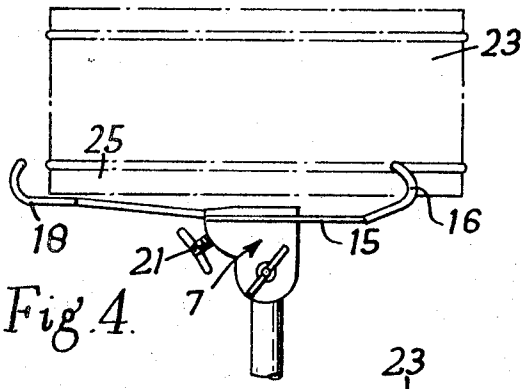


Fig. 4.

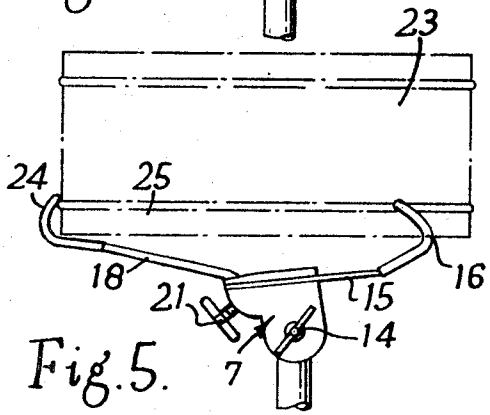


Fig. 5.

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SNARE DRUM STANDS

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4 Claims. (Cl. 84—421)

ABSTRACT OF THE DISCLOSURE

A stand for a snare or like drum in which the drum support includes three arms of which two pivot in a common plane and the third hinges in a plane at right-angles to this. The support may be carried by a mounting on the stem of the stand which caters for infinitely-variable angular adjustment.

This invention relates to stands for snare or side drums or flat bass drums as used in orchestras, bands, and so on. Such stands usually comprise a base (generally composed of radial supporting legs), a stem upstanding from this base, and a drum support carried by this stem. This drum support, again, usually comprises three arms outstanding from a mounting on the upper end of the stem, these arms having upturned ends and being adjustable to engage these ends with the lower counter hoop of a drum placed on the support, and the mounting being angularly adjustable to allow the supported drum to be orientated to a position convenient to the drummer. Drum stands with these features will hereinafter be defined as "of the kind set forth."

Various means have been used to cater for the aforesaid adjustment of the support arms.

In one known arrangement one of the arms is slidable in the mounting to vary the effective length of this arm and thus vary the effective diameter of the support, a spring or locking means being provided to hold the slidable arm in the position to which it is adjusted. In another known arrangement all the arms are pivotable upwardly so as to vary the effective diameter of the support, the arms being connected by links to a sleeve which is slidable along the mounting to produce the pivoting of the arms up and down in concert.

It is an object of this invention to provide a drum stand of the kind set forth with a drum support which can be quickly adjusted to provide a firm support and firm gripping of a drum, irrespective of variations in size of the latter.

To this end, the present invention provides a drum stand of the kind set forth which is characterised by the fact that the drum support comprises two arms which are pivotally adjustable in a common plane about parallel axes in the mounting, and a third arm which is pivotable in a plane perpendicular to the aforesaid common plane, means being provided to retain this arm in a selected pivotal position.

With this arrangement, the two arms movable in a common plane can be arranged to grip the counter hoop of a drum, placed on the stand, at positions appropriately spaced around the periphery, whereafter the third arm can be pivoted to clampingly engage the drum. The latter will, in fact, be tilted until the upturned end of the third arm firmly engages the counter hoop, thus quickly providing a stable and secure three-point fastening of the drum.

The drum has, of course, been tilted during this fastening, and in accordance with a further feature of the invention the mounting is made rotatably adjustable on the stem through infinitely variable positions, for example by means of a conical concavity mating on a corresponding seat on the stand, so that the tilt can quickly be adjusted into any position suitable to the drummer.

One embodiment of the invention is illustrated in the accompanying drawings in which:

FIGURE 1 is a perspective illustration of a snare drum stand in accordance with this embodiment,

FIGURE 2 is a transverse section through the mounting of this stand,

FIGURE 3 is a cross section through a mounting, at right angles to that of FIGURE 2, and

FIGURES 4 and 5 are diagrammatic illustrations to explain the fastening and positioning of a drum on the stand.

The stand illustrated in FIGURE 1 comprises a stem, generally designated **1** upstanding from a base plate **2** with support legs **3**. The stem **1** comprises a main tubular body **4** telescopically receiving a rod **5** which is adjustable in body **4** and to vary the effective height of the stand, and secured in its adjusted position by a set screw **6**. The details of the parts so far described do not form part of the present invention and will therefore not be further explained.

At its upper end the rod **5** carries a mounting generally designated **7** for the drum support. This mounting includes a top plate **8** with a depending side cheek **9** having an inturned conical bearing **10** at its lower end. The bearing mates with a correspondingly-conical seat **11** of friction material, e.g. rubber, secured on a fitting **12** attached to the upper end of rod **5**. A separate cover **13** mates with the side cheek **9** to enclose the upper end of rod **5** from the opposite side. The parts are held assembled by a clamping screw **14**.

Mounted by upright pivot pins on top plate **8** are the first and second drum support arms **15**, each with an upturned outer end **16**, which are therefore pivotable in a substantially horizontal plane towards and away from one another. The inner ends, and the pivot pins of these arms **15** are masked by a cover plate **17** screwed to plate **8**.

The third arm **18** of the drum support is curved at its inner end and is there pivoted, at **19** in a pocket **20** integral with the top plate **8** and the side cheek **9**. The end of a screw **21** threaded in a cross piece **22** in pocket **20**, causes the third arm **18** to pivot in a vertical plane, i.e. at right angles to the plane of pivoting of arms **15**.

The fastening of a drum in the support is diagrammatically illustrated in the FIGURES 4 and 5. FIGURE 4 illustrates the situation in which a drum is first placed on the support before being clamped. In this case before the drum is placed down on the support, the third arm **18** is lowered so that it is virtually in the plane of the arms **15** which are splayed out at an appropriate angle. There is then a maximum area available for the drum to be placed between the ends of the three arms. The drum, designated **23**, is then placed on the distended arms, and the screw **21** turned to raise arm **18** until its upturned end **24** grips the counter hoop **25** and provides, in conjunction with the ends **16** of arms **15**, which are also now tightly engaging the counter hoop, a firm clamping of the drum on the support.

The drum, however, has been tilted during this operation and will probably not be at the most convenient angle for playing. To correct this, the user has merely to loosen the screw **14** slightly to provide for a frictional rotation of the complete mounting until the drum is set at the angle required, when the screw **14** can be quickly tightened. In FIGURE 5 it has been assumed that the required angle is at the horizontal, wherefore the mounting **7** is tilted.

Changes may be made in the details of the drum stand specifically described, without departing from the

scope of this invention. Thus, for instance, the means for pivoting the third arm can take various forms, for example spring means, spring, wedge or linkage means, or a cam.

The various components of the drum support may be made of different materials, but preferably of metal.

I claim:

1. A drum stand of the kind comprising a base, a stem upstanding from this base, and a drum support comprising arms outstanding from a mounting on the stem, characterised by the improvement in which the drum support comprises two arms which are pivotally adjustable in a common plane about parallel axes in the mounting, a third arm which is pivotable in a plane perpendicular to the aforesaid common plane, and mechanical means for exerting on said third arm a controlled, micro-metric pivoting motion in said perpendicular plane to positively clamp said third arm against the hoop of a drum on said support.

2. A drum stand according to claim 1 characterised by the fact that the mounting is rotatably adjustable on the stem through infinitely variable positions and has means for locking it in any chosen one of these positions.

3. A drum stand according to claim 2, characterised by the fact that the mounting has a depending portion with a conical concavity mating with a corresponding fixed seat on the stand, a clamping screw being provided to lock the opposed faces of the concavity and seat together in the angularly adjusted position of the mounting.

4. A drum stand according to claim 1 characterised by the fact that the means for exerting a pivoting motion on said third arm comprises a set screw threaded in a projection on said mounting, the end of said screw bearing against said third arm.

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