July 22, 1952 F. F. BECKER 2,604,289

STAND FOR MUSIC RACKS AND THE LIKE

Filed July 10, 1948

Fig. 3

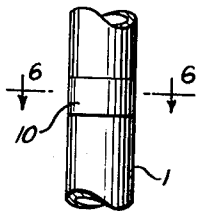


Fig. 1

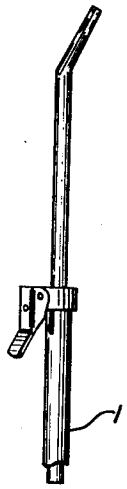


Fig. 4

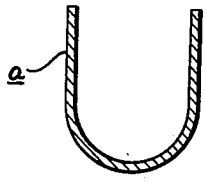


Fig. 2

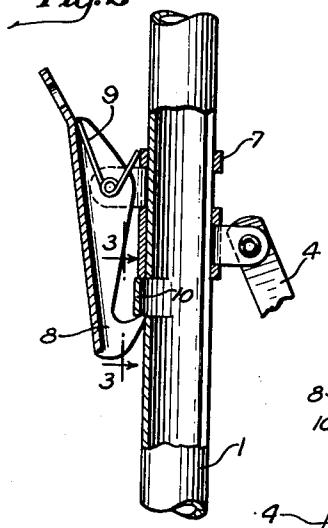


Fig. 5

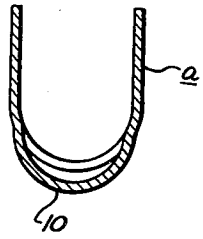
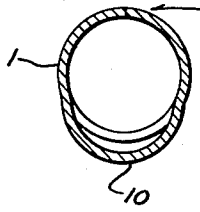


Fig. 6



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STAND FOR MUSIC RACKS AND THE LIKE

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Application July 10, 1948, Serial No. 38,011

2 Claims. (Cl. 248—171)

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This invention relates to a stand for sheet music racks and the like. The stand with which I am here concerned is of the type which comprises an upright seamed tubular post to which three legs are hinged with a link pivotally connected at one end to each leg and at the other end pivotally joined to a sleeve which is slidable upon the post to a lowermost position against a stop which is carried by the post. In such a construction the sleeve, when upwardly slid, will permit the legs to be swung around through perhaps 135° to folded positions parallel with and adjacent to the post.

My invention is concerned primarily with the stop itself which is formed integrally with the tubular post and the method of making it. This stop has a double function: (1) to serve as a shoulder to arrest the downward movement of the sleeve when the legs are swung to their open position, and (2) to serve as a keeper, which may engage a latch that is carried by the sleeve for locking the latter in a fixed position adjacent the stop, thus rigidly keeping the legs in their open position. This stop is an improvement over the usual types heretofore used in that it is extremely efficient, is easy to manufacture and is less costly because it can be formed in the same operation that forms the tubular post, and it offers no sharp protruding corners or edges.

Referring now to the accompanying drawing:

Figure 1 is a side elevation of the legs and tubular post comprised in the present stand;

Fig. 2 is a longitudinal section through the sleeve and latch carried thereby in operative position relative to the tubular post;

Fig. 3 is a fragmentary elevation of the post looking toward the stop which is formed thereon;

Fig. 4 is a cross section through a strip from which the post is produced, showing the contour of the stop after the initial forming operation;

Fig. 5 is a similar view showing the stop displaced outwardly from the strip as a result of the shearing operation which is the second step in the formation of the post; and

Fig. 6 is a cross section taken on line 6—6 of Fig. 3, showing the completed post.

My improved stand for music racks and the like comprises, as shown in Fig. 1, an upright post 1 of seamed construction and usually, but not necessarily, made of metal, having three legs 2 hinged vertically at one end to a collar 3 which is attached at or near the bottom end of the post. A link 4 is pivotally connected at one end to each leg 2 and at the other end is pivotally joined to a sleeve 7 which is slidably fitted on

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the post. A latch 8, acted upon by a spring 9, is pivotally mounted on the sleeve as shown best in Fig. 2. A stop 10 is formed on the tubular post at the desired point to arrest the downward movement of the sleeve when the legs 2 have been swung downwardly to their final open supporting position; and simultaneously the latch 8, which rides over the stop 10 as the sleeve approaches its final position proximate to the stop 10 springs inwardly to engage the stop on its under side, as shown most clearly in Fig. 2. In this position the sleeve 7 is locked so that it may not accidentally slide upwardly with a consequent collapse of the leg supports.

The stop 10 consists of an arcuate strap which is displaced outwardly from the tubular post so as to occupy an out-of-round position relative thereto. In the process of making the post, a metallic strip *a* is first bent to U-form (see Fig. 4) with the aid of a forming die, and while so bent the strap is then outwardly formed with the aid of a shear forming die to the position of Fig. 5. The outstanding sides of the strip thus bent to U-form are then curved toward each other to complete the tubular enclosure as per Fig. 6, with the aid of another forming die, the strap then remaining in its outwardly displaced position to serve as a stop.

The customary stop in general use often consists of a metal collar which is preformed as a separate unit and is welded or riveted to the post in an assembly operation. My invention is a great improvement in that it utilizes the wall of the post to integrally form the stop; thus it conserves materials, eliminates the necessity for a separate preformed unit and eliminates any assembly operation. A substantial saving in both time and material results. In addition my improvement has the advantage of being integral with the post so it cannot break away therefrom or become loosened and it is completely free of any sharp edges or protruding corners.

I claim:

1. A stand for music racks and the like comprising a tubular post provided with a stop consisting of a narrow integral horizontally disposed strap partially severed from the post and displaced outwardly in a direction transversely of the post and presenting upper and lower horizontal edges offset from the post, a plurality of legs hingedly connected to the post near its bottom, a sleeve slidable lengthwise of the post and located above the stop and arranged to engage the upper horizontal edge of the stop for limiting the downward movement of the sleeve, links

pivotally connecting the sleeve with each leg, and a latch pivotally mounted on the sleeve and depending therefrom and provided at its lower end with an engaging portion arranged to engage beneath the lower horizontal edge of the stop where the same is offset from the tubular post and locking the sleeve in abutting relation with the upper horizontal edge of the stop.

2. A stand for music racks and the like comprising a tubular post provided with a stop consisting of a narrow integral horizontally disposed strap partially severed from the post and displaced outwardly in a direction transversely of the post and presenting upper and lower horizontal edges offset from the post, a plurality of legs hingedly connected to the post near its bottom, a sleeve slidable lengthwise on the post and having a lower horizontal edge engageable with the upper horizontal edge of said stop, said sleeve being provided at its lower portion with circumferentially spaced ears and having an upper ear located above said spaced ears, said ears each consisting of a partially severed portion of the sleeve extended radially therefrom, links pivotally connecting the lower ears with the legs, and a latch pivoted to the upper ear and depending therefrom to a point below the lower end of the

sleeve and having an inwardly extending engaging portion engageable with the lower horizontal edge of the stop where the same is offset from the tubular post and locking the sleeve in abutting relation with the upper horizontal edge of the stop.

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