

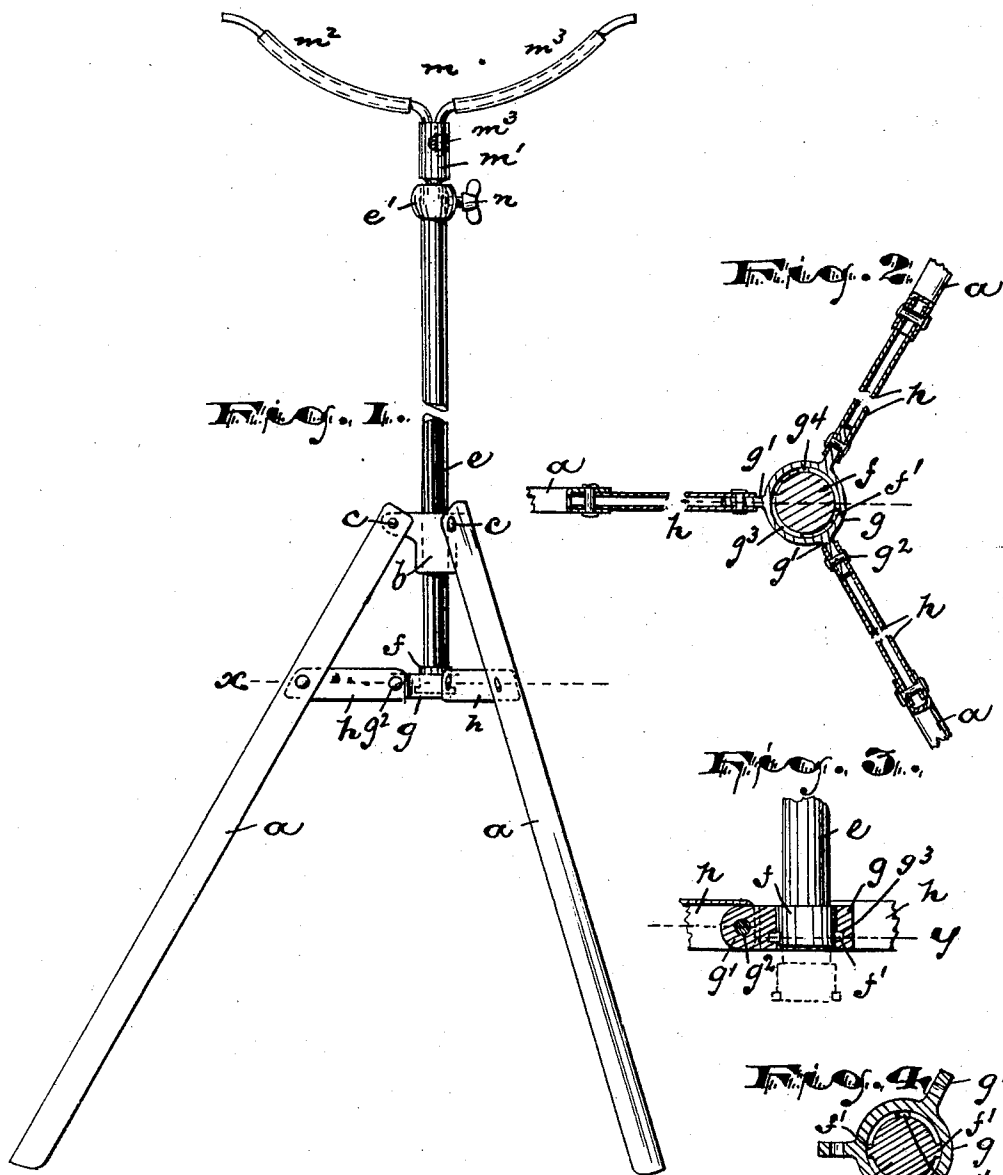
No. 774,487.

PATENTED NOV. 8, 1904.

A. S. MARTEN.
FOLDING STAND.

APPLICATION FILED AUG. 22, 1902.

NO MODEL.



WITNESSES:

Henry Krug
Russell M. Everett

INVENTOR:

Albert S. Marten

BY

Drake & Co
ATTORNEYS

UNITED STATES PATENT OFFICE.

ALBERT S. MARTEN, OF EAST ORANGE, NEW JERSEY.

FOLDING STAND.

SPECIFICATION forming part of Letters Patent No. 774,487, dated November 8, 1904.

Application filed August 22, 1902. Serial No. 120,610. (No model.)

To all whom it may concern:

Be it known that I, ALBERT S. MARTEN, a citizen of the United States, residing at East Orange, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Folding Stands; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

This invention relates to certain improvements in that class of folding stands or supports for amplifying horns, &c., represented by the one shown in my prior application for a patent filed February 1, 1902, Serial No. 92,188, the objects of the present improvements being to secure a more rigid and firm arrangement of the slidable vertical supporting rod or post upon its folding tripod, to secure a more compact folding of the stand for purposes of transportation, and to secure other advantages and results, some of which will be referred to hereinafter in connection with the description of the working parts.

The invention consists in the improved folding stand and in the arrangements and combinations of parts of the same, all substantially as will be hereinafter set forth, and finally embraced in the clauses of the claim.

Referring to the accompanying drawings, in which like letters of reference indicate corresponding parts in each of the several figures, Figure 1 is an elevation of a folding stand of my improved construction. Fig. 2 is a section of the same, taken at line *x*, on an enlarged scale. Fig. 3 is a detail view taken at line *z* of Fig. 2, and Fig. 4 is a section taken at line *y* of Fig. 3.

In said drawings, *a* indicates the legs of the stand, *b* a sliding collar having ears *d*, to which said legs are pivoted, as at *c*, said collar being arranged in the vertical rod or post *e*, *a* at the top or upper part of which are means for properly holding the horn. At the foot of said rod or post *e*, below the sliding collar *b*, the said post is somewhat enlarged, as at *f*, whereby it is prevented from being with-

drawn through said collar, and said enlargement of the rod or post is provided at opposite sides with teats or lugs *f'*, adapted to enter bayonet-slots of a second sliding collar, as will be hereinafter more fully specified. Said second sliding collar, *g*, is arranged on said rod or post *e* below the collar *b* and is connected to the legs *a a a* by connections *h h h*, pivoted both to said legs and to said collar *g*, the latter being provided with ears *g'* to receive the pivots *g*². The ends of said connecting-rods are made angular near the pivots by which they are attached to the lower collar and to the legs, and thus the said connecting-rods have but a limited pivotal movement. On drawing up the center post, as hereinafter more particularly described, its lower end engages the lower collar, and the latter is drawn upward with the rod, turning said connecting-rods on their pivots and spreading the legs. When the limit of pivotal movement of the connecting-rods is reached, the legs, positively held by their pivots at their upper ends, are spread at their lower ends to a proper degree to effect a secure standing of the stand. This limit being reached, the rod is simply turned on its longitudinal axis, and as a result the parts are locked in position without the necessary manipulating of special set-screws—that is to say, the parts of the stand will positively remain in operative relation whether under weight applied to the vertical center rod or post or when the stand is lifted and carried by said center post or any other part.

The inner wall of the collar is provided with a horizontal groove *g*³, which preferably extends continuously around the said wall, as shown in Fig. 4, and at opposite sides of said collar said wall is provided with vertical slots *g*⁴, which extend up from the bottom of the collar to said groove *g*³ and correspond in size and location with the lugs or teats *f'*, so that the latter may pass therethrough when the post *e* is raised, so that the foot-piece moves toward and into engagement with the collar *g*.

When in moving the rod or post *e* longitudinally upward or in a direction away from the legs *a*, the teats or lugs *f'* enter the slots *g*⁴ and the said lugs strike against the upper side of the horizontal groove, so that the con-

necting-rods h are turned to their horizontal positions and the legs a are spread to the open position of Fig. 1. By then turning the rod or post axially the lugs are turned into the horizontal groove away from the vertical slots and the parts are held rigidly in place.

When in their horizontal position or positions perpendicular to the outside walls of the collar g , the angular inner ends of the connections h bear hard against the said outside walls of the collar g , so that farther up movement of the inner ends of said connections is prevented, all of which conduces to a greater rigidity when the parts are locked together by the lugs. By this construction all need for set-screws is avoided, although such set-screws may be employed as heretofore, if desired. The pivotal prong at its inner and lower extremity is bent downward to lie vertically within the hole or socket within the shank, and thus when the horn is placed between the prongs there will be no giving away of the foldable prong; but when the horn is removed said prong can be turned pivotally and horizontally to a position approximately parallel with the fixed prong.

The upper end of the post e is provided with a head e' , which serves as a stop to prevent the sliding collars from passing off the rod or post e when folding or closing the parts together into a compact package. Thus the two sliding collars, each free to slide on the rod or post or to have the said rod or post slide freely therein, are prevented from complete detachment from the post by the head and foot stops e' f'' , and the post can be pushed down between the legs its full length less the vertical length of the head after having been unlocked from the collar g , so that the length of the legs will approximately determine the length of the package.

To secure a more perfect compactness of the folded horn-stand, I provide the top of the post or rod e with a removable and foldable fork m , comprising a shank m' , adapted to fit into a socket formed at the top of the rod and be set therein by a set-screw n , a rigid prong m^2 , fixed upon said shank and extending laterally and upwardly therefrom, and a pivoted prong m^3 , adapted to extend upward and laterally away from the shank in an opposite direction and to be turned at its pivotal end upon the top of the shank, so as to lie closely parallel to the fixed prong.

When the fork is removed from the rod and folded, it may be laid neatly between the legs of the folded stand or be otherwise packed so as to occupy but little space in the package.

The prongs are preferably curved to conform more or less closely to the side of the horn and are covered with rubber or similar matter to guard against injury to the said horn.

Having thus described the invention, what I claim as new is—

1. The improved stand herein described, comprising an upper sliding collar, adapted to receive and hold a post or rod in vertical position, legs pivoted at their upper ends upon said sliding collar, a second sliding collar disposed below the first said sliding collar, and also adapted to receive the said post or rod, connecting-rods pivoted on said lower collar and extending therefrom to said legs and being pivoted to said legs at points below the points at which said legs are directly pivoted to the upper collar, the lower collar being interiorly grooved and slotted, the groove extending horizontally in the interior wall of the collar and the slot extending downward through the bottom of said collar, and said post or rod, slidably arranged in both said collars, and having near its lower extremity a laterally-extending lug adapted to enter the slot when said rod is drawn upward and to engage the lower collar, and turn the connecting-rods on their opposite pivots and spread the legs, the latter turning on the upper collar and, when said drawn-up rod is turned on its longitudinal axis, to lock said legs, collars and rod and hold the said stand erect for service, substantially as set forth.

2. The improved stand herein described comprising an upper and a lower collar, a rod extending through both said collars and having a pin at its lower end, the lower collar having an interior, horizontal groove to receive said pin, and connecting-rods each pivoted at one end to the lower collar and at the opposite end to a leg at a point thereon below the pivotal connection of said leg with the upper collar, substantially as set forth.

3. The combination with the folding stand, having a post, legs and connections, of a fork separably arranged at the top of said post, one prong being rigidly secured at said top and extending laterally and upwardly from the post and the other said prong being provided with a vertical pivot and extending upward and laterally therefrom whereby said arm may be turned toward or from the first said prong, substantially as set forth.

4. The combination with the folding stand having a post, legs and connections, of a shank having a socket at the top in which a vertical pivot may turn and having a rigid prong thereon and extending laterally and upwardly therefrom, and a pivoted prong having a vertical pivot at its lower end arranged in said socket, said prong being adapted to turn horizontally with said pivot toward and from the rigid prong, substantially as set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 6th day of August, 1902.

ALBERT S. MARTEN.

Witnesses:

CHARLES H. PELL,
RUSSELL M. EVERETT.