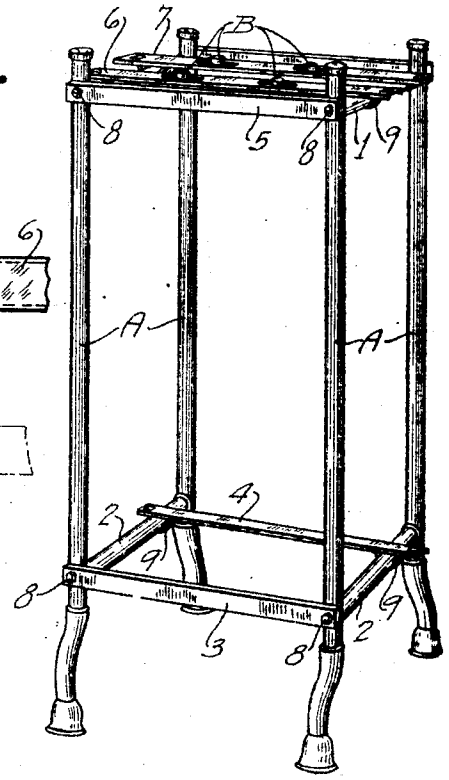
March 2, 1926. 1,575,235

H. G. TIFFANY

STAND

Filed April 5, 1924

Fig. 1.



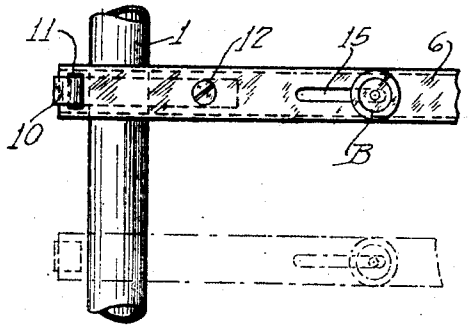


Fig. 2.

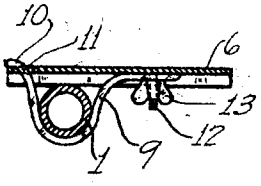


Fig. 3.

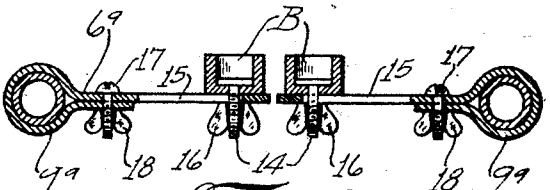


Fig. 4.

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UNITED STATES PATENT OFFICE.

HIERO G. TIFFANY, OF ST. LOUIS, MISSOURI.

STAND.

Application filed April 5, 1924. Serial No. 704,446.

To all whom it may concern:

Be it known that I, HIERO G. TIFFANY, a citizen of the United States, residing at St. Louis, Missouri, have invented a certain new and useful Improvement in Stands, of which the following is a full, clear, and exact description, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to stands of the kind that are used for supporting computing machines and typewriting machines.

One object of my present invention is to provide a stand of the general type referred to that is equipped with machine rests which can be adjusted into various positions so as to adapt the stand to various sizes or makes of machines.

Another object is to provide a stand of the general type mentioned that is composed of three units which can be assembled or combined easily by a person possessed of no mechanical skill, thereby enabling the stand to be transported at a low cost, due to the fact that it can be shipped in knock-down form.

Figure 1 of the drawings is a perspective view of a stand constructed in accordance with my invention.

Figure 2 is a top plan view of one of the adjustable tie members that is used to join the vertical side frames or side sections of the stand together.

Figure 3 is an edge view of said tie member, illustrating the strap on one end of same that is used to connect it to one of the side frames of the stand; and

Figure 4 is a detail view, illustrating a tie member of slightly different form from the one shown in Figures 2 and 3.

My improved stand is preferably composed of two side frames or side sections that are detachably connected together by transverse tie members which can be connected to said side frames simply by inserting a few conventional fastening devices. Two of the tie members at the upper end of the stand constitute supporting members that are equipped with machine rests which are adapted to receive the computing machine or typewriting machine which the stand sustains, and said supporting members and machine rests are so combined and arranged that said machine rests can be adjusted inwardly and outwardly with relation to the vertical axis of the stand, thereby enabling the stand to be used for sustaining various sizes or makes of computing machines or the like.

In the preferred form of my invention, as herein illustrated, each side frame or side section of the stand is composed of two legs A and top and bottom cross pieces 1 and 2 joined together in such a way as to form a single unit. Said units or side frames are joined together by two transversely-disposed tie members 3 and 4 arranged at the lower end of the stand and a plurality of transversely-disposed tie members arranged at the upper end of the stand and comprising two outside members 5 and two intermediate members 6 and 7. I will hereinafter refer to the transverse tie members 3 and 5 as permanent tie members, as said tie members are permanently connected to the side frames of the stand by means of bolts or other suitable fastening devices 8, after the stand reaches its point of destination. The remaining tie members 4, 6 and 7, however, are combined with the side frames of the stand in such a way that they can be adjusted longitudinally of the cross pieces 1 and 2 of the side frames, and therefore, I will hereinafter refer to the tie members 4, 6 and 7 as adjustable tie members. Said adjustable tie members can be connected with the side frames in various ways without departing from the spirit of my invention. As shown in Figures 1, 2 and 3, each of the adjustable tie members is preferably provided with straps 9 arranged at the opposite ends of same in such a way that they extend around the cross pieces of the side frames to which said tie member is joined. Each of the straps 9 is provided at one end with a hook-shaped portion 10 that projects through a hole 11 in the tie member, as shown in Figures 2 and 3, and the opposite end of said strap is detachably connected to the tie member by a bolt 12 equipped with a wing nut 13, said bolt projecting through aligned holes in the tie member and in the strap 9. To combine the adjustable tie members with the cross pieces of the side frames it is only necessary to arrange said tie members transversely of the stand in engagement with said cross pieces, then insert the hook-shaped

portions 10 of the straps 9 in the holes 11 provided for same in said tie members, and thereafter draw said straps upwardly into engagement with said cross pieces by tightening the wing nuts 13 on the bolts 12.

As previously stated, my improved stand is equipped with an adjustable means for sustaining the computing machine, typewriting machine or other machine sustained by the stand. Preferably, said means is composed of four cup-shaped machine rests B carried by the two adjustable tie members 6 and 7 at the upper end of the stand that serve as supporting members. Each of said adjustable tie members carries a pair of machine rests B which are mounted on said member in such a manner that they can be moved towards and away from each other. Any suitable means can be used for retaining the machine rests B in adjusted position, such, for example, as a bolt 14 projecting downwardly from the machine rest through an elongated slot 15 in the tie member on which said machine rest is mounted, and a wing nut 16 or the like arranged on said bolt below the tie member.

By equipping the stand with machine rests B of the kind above described I can easily adapt the stand to various sizes or types of computing machines, typewriting machines or the like, as each of said machine rests can be adjusted in two directions at right angles to each other. For example, by moving the adjustable tie members 6 and 7 back and forth longitudinally of the cross pieces 1 of the side frames, said tie members can be brought close together or spaced far apart, and by moving the machine rests B longitudinally of said tie members the distance or space between the pair of machine rests carried by each of said adjustable tie members can be varied.

While I prefer to connect the adjustable tie members to the cross pieces of the side frames of the stand by means of removable straps 9, as above described, various other means could be used for this purpose without departing from the spirit of my invention, so long as the adjustable tie members and the side frames of the stand are combined in such a way that they can be assembled and disassembled easily, and the adjustable tie members at the upper end of the stand that carry the machine rests B are secured to the side frames in such a way that said tie members can be adjusted easily towards and away from each other. In Figure 4 of the drawings I have illustrated one of the upper adjustable tie members, for example, the member 6^a, as being connected with the cross pieces of the side frames by integral split sleeves 9^a, formed by bending the end portions of said tie member in such a way as to form integral portions at the ends of same that surround the cross pieces of the side frames and which are held in snug engagement with said cross pieces by bolts 17 provided with wing nuts 18.

A stand of the construction above described can be shipped in knock-down form from the point where it is manufactured to the place where it is to be used, owing to the fact that it is composed of two main elements, to wit, the side frames or side sections that are joined together by a number of transverse tie members which can be easily combined with said side frames by a person possessed of no mechanical skill. Moreover, as the stand is equipped with four machine rests, each of which can be adjusted in two directions at right angles to each other, the stand can be used for supporting computing machines and typewriting machines of various sizes. By making one of the tie members at the lower end of the stand adjustable, said tie member can be moved towards and away from the front of the stand so as to provide ample leg room for the operator sitting at the stand.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent is:

1. A stand for supporting computing machines and the like, comprising two side frames, each constructed in the form of a single unit, tie members detachably fastened to said side frames for connecting them together, two transversely-disposed supporting members at the upper end of the stand detachably and adjustably connected to said side frames and adapted to be moved towards and away from each other, and adjustable machine supports on said supporting members that are adapted to be adjusted longitudinally of same.

2. A stand, comprising side frames provided with cross pieces, a transversely-disposed tie member arranged between said side frames, and removable straps for connecting said tie member to said cross pieces, each of said straps being provided at one end with a portion that is adapted to be interlocked with the tie member and having its opposite end detachably connected to the tie member by an adjustable fastening device.

3. A stand, comprising side frames provided with cross pieces, a tie member arranged transversely between said side frames, and means for detachably connecting said tie member to said cross pieces consisting of a removable strap at each end of said tie member arranged to embrace the adjacent cross piece, a device on one end of the strap that is adapted to be inserted in a hole in the tie member and interlocked with same, and an adjustable means for detachably connecting the other end of the strap to the tie member.

4. A stand having side frames provided

with cross pieces, a transversely-disposed tie member that bears against said cross pieces, and straps on said tie member that embrace said cross pieces, each of said straps being provided at one end with a hook-shaped portion that is adapted to be inserted in a hole in the tie member, and a screw-threaded fastening device for securing the opposite end of the strap to the tie member.

5. A knock-down stand, comprising two side frames, each of which is provided with top and bottom cross pieces, and adjustable tie members arranged transversely of the cross pieces of said side frames and connected to said cross pieces by straps that embrace said cross pieces, each of said straps having one of its ends secured to the tie member by a portion on the strap that projects through a hole in the tie member and having its opposite end secured to the tie member by an adjustable fastening device.

6. A stand for the purpose described, comprising two side frames, transversely-disposed tie members at the upper end of the stand, longitudinally-adjustable machine rests carried by said tie members, and removable straps for connecting said tie members to said side frames, each of said straps being provided at one end with a portion that is adapted to be interlocked with the tie member with which it co-operates and having its opposite end detachably connected to said tie member by an adjustable fastening device.

HIERO G. TIFFANY.