

Aug. 2, 1927.

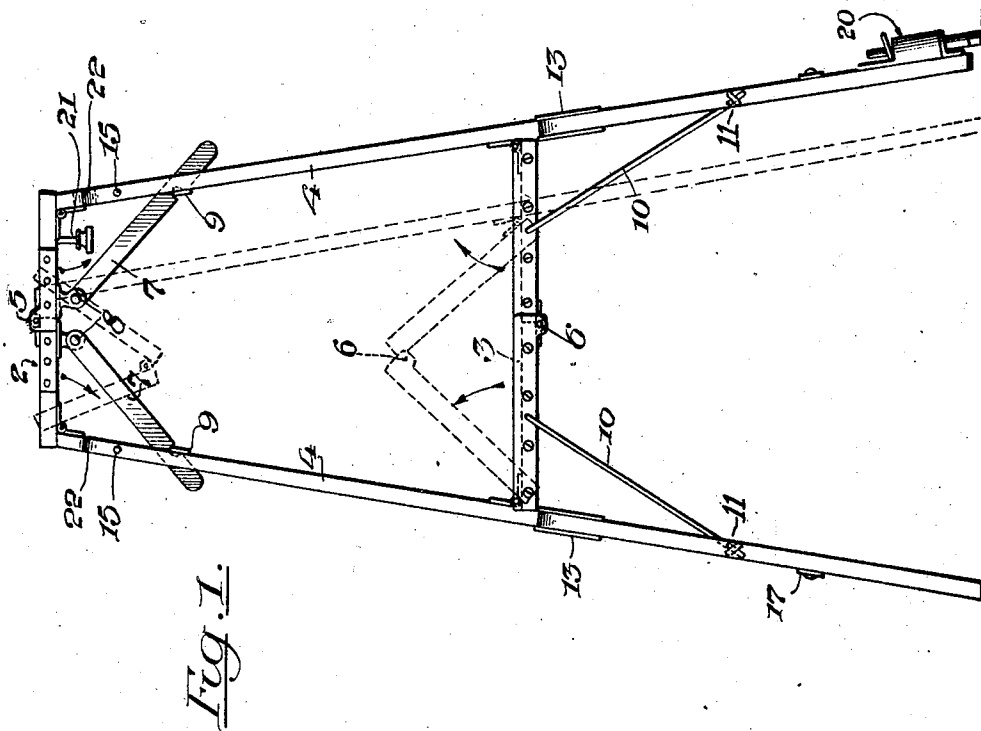
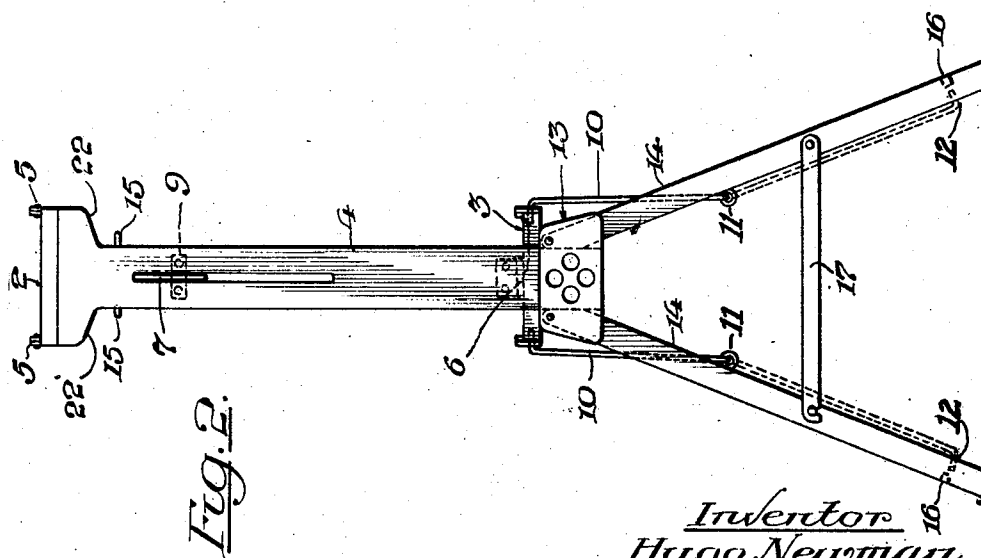
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1,637,705

FOLDABLE SUPPORTING STAND FOR OPTICAL PROJECTING MACHINES

Filed Nov. 7, 1925

2 Sheets-Sheet 1.



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2 Sheets-Sheet 2

Fig. 3.

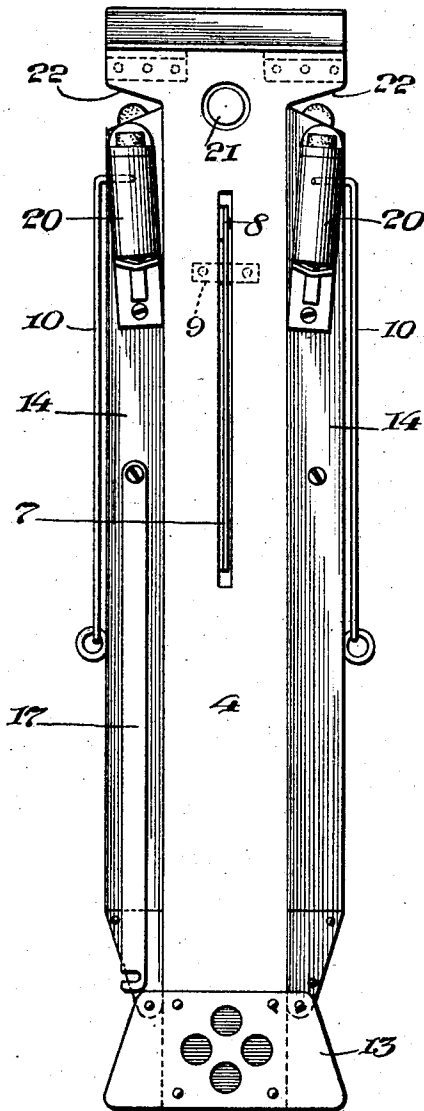
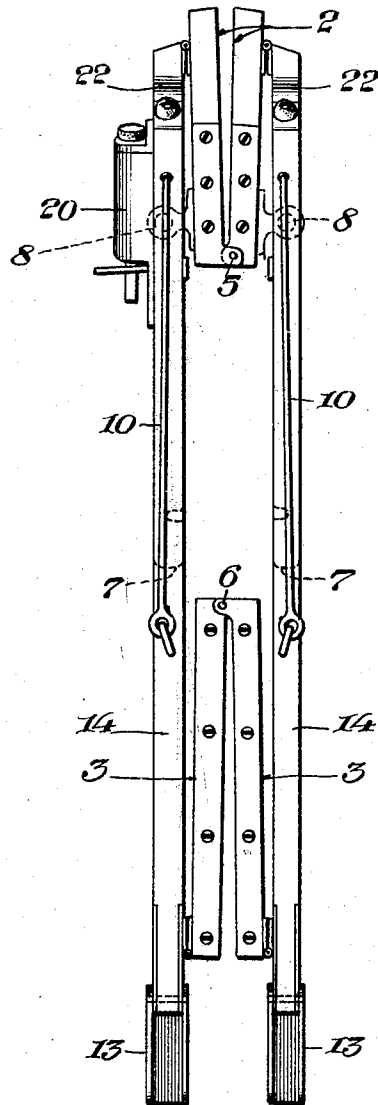


Fig. 4.



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FOLDABLE SUPPORTING STAND FOR OPTICAL PROJECTING MACHINES.

Application filed November 7, 1925. Serial No. 67,558.

This invention relates to supporting stands for cameras and optical projecting machines, the object of the invention being to provide a simple, comparatively inexpensive, light weight, rigid, portable stand which can be readily folded into a small space and quickly adjusted into position for supporting a camera or other instrument.

In the drawings accompanying and forming a part of this specification, Fig. 1 is a front view of this improved supporting stand, the dotted lines illustrating the manner in which the frame of the stand is foldable; Fig. 2 is a side view thereof; Fig. 3 is one view of the supporting stand folded; and Fig. 4 is a view taken at right angles to Fig. 3 showing the stand folded.

Similar characters of reference indicate corresponding parts in the several views.

Before explaining in detail the present improvement and mode of operation thereof, I desire to have it understood that the invention is not limited to the details of construction and arrangement of parts which are illustrated in the accompanying drawings, since the invention is capable of other embodiments, and that the phraseology which I employ is for the purpose of description and not of limitation.

This improved instrument stand comprises in the preferred form thereof shown an instrument supporting member or board 2, a bottom board or shelf 3, these two boards being connected by side bars 4, which side bars are hinged to the two boards. In the present instance this portion of the supporting stand is of truncated form. The supporting bar or platform for the instrument and the shelf are each formed in two sections hinge-connected as at 5 and 6, the supporting platform 2 being provided with a pair of pivoted braces or levers 7 pivoted to the underside of the supporting platform members as at 8 and projecting through slots of the side bars 4 in position to hook into catch plates 9, whereby the platform is maintained in its proper position for the support of the instrument. The shelf 6 is likewise maintained in its proper position by suitable hooked rods 10 pivotally connected as at 11 to the supporting legs and projecting into openings of the shelf. These rods when not in use (four in number being shown—two at each side) have their hooked ends projecting into open-

ings as at 12 of the legs so that they are held out of the way. The lower ends of the side bars 4 are provided with suitable brackets 13, to which at each end of the stand a pair of legs 14 are pivotally connected, these legs being so formed and connected to the brackets 13 that they are foldable upwardly against the side edges of the side bars 4, being held in such position by suitable pins 15 projecting into openings 16 of the legs. A suitable brace or lever 17 is pivoted to one leg and hook-connected to the other of each pair to maintain the legs in their proper extended position. Carried by each leg at one side is a shiftable spring controlled bolt 20, which is readily shiftable by foot to properly level the stand in the event that the floor is not even, and these bolts may be attached to the outer side of the legs, or if preferred, partly inserted in recesses therein. The supporting platform is provided with suitable means 21 for attaching the camera or other instrument thereto.

When it is desired to fold the stand into a compact bundle it is merely necessary to unhook the braces 10 from the side edges of the shelf and release the braces 17 connecting the legs and turn the legs upwardly against the side edges of the bars 4, these legs being of a length substantially corresponding with the length of the side bars, the free ends of the legs projecting under the overhanging portions 22 of the supporting frame. In this position the pins 15 project into the openings 16 of the legs and hold them properly positioned. The hooked braces 7 are then released from the hooked plates 9 whereupon the supporting platform 5 and shelf 6 are foldable toward each other in the manner shown in dotted lines in Fig. 1, so that the entire stand will then be folded into a compact bundle as shown in Figs. 3 and 4.

Thus I have provided a light weight, rigid, comparatively inexpensive and simple supporting stand which is easily carried and which can be quickly set up and knocked down and which provides not only a supporting platform for the instrument but below the same at any desired place a suitable handy shelf for the deposit by the operator of his equipment.

It is to be understood that by describing in detail herein any particular form, structure or arrangement, it is not intended to

limit the invention beyond the terms of the several claims or the requirements of the prior art.

Having thus explained the nature of my said invention and described a way of constructing and using the same, although without attempting to set forth all of the forms in which it may be made, or all of the modes of its use, I claim:

10 1. A folding supporting stand for instruments comprising a top and bottom and a pair of side bars hinge connected to said top and bottom adjacent to the ends thereof, said top and bottom each being hinge
15 connected intermediate its length to fold inward toward each other and toward the center of the stand and wholly within the side bars, and foldable legs for supporting the stand and foldable upwardly against the
20 edges of said side bars.

2. A folding supporting stand for instruments comprising a top and bottom and a pair of side bars hinge connected to said top and bottom adjacent to the ends thereof,
25 said top and bottom each being hinge connected intermediate its length to fold inward toward each other and toward the center of the stand and wholly within the side bars, and foldable legs for supporting the
30 stand and foldable upwardly against the edges of said side bars and having a length substantially coinciding with the length of the side bars.

3. A folding supporting stand comprising
35 a supporting member, a shelf therebelow, a pair of side bars hinge connected to said supporting member and shelf adjacent to the ends thereof, said supporting member and shelf each having a hinge connection inter-
40 mediate its length to fold inward toward each other and toward the center of the stand and wholly within the side bars, and supporting legs shiftably connected to said side bars.

4. A folding supporting stand comprising
45 a supporting member, a shelf therebelow, a pair of side bars hinge connected to said supporting member and shelf adjacent to the ends thereof, said supporting member and shelf each having a hinge connection inter-
50 mediate its length to fold inward toward each other and toward the center of the stand and wholly within the side bars, supporting legs shiftably connected to said side
55 bars, and means for maintaining the supporting member in its supporting position.

5. A folding supporting stand comprising
60 a supporting member, a shelf therebelow, a pair of side bars hinge connected to said supporting member and shelf adjacent to the ends thereof, said supporting member and shelf each having a hinge connection inter-
65 mediate its length to fold inward toward each other and toward the center of the stand and wholly within the side bars, sup-

porting legs shiftably connected to said side bars, means for maintaining the supporting member in its supporting position, and comprising brace bars hinged adjacent to the inner meeting edges of the supporting member and hook-connected with the side bars. 70

6. A folding supporting stand comprising a supporting member, a shelf therebelow, a pair of side bars hinge connected to said supporting member and shelf adjacent to the ends thereof, said supporting member and shelf each having a hinge connection inter-
75 mediate its length to fold inward toward each other and toward the center of the stand and wholly within the side bars, supporting legs shiftably connected to said side bars, and means for maintaining the shelf
80 in its supporting position.

7. A folding supporting stand comprising a supporting member, a shelf there-
85 below, a pair of side bars hinge connected to said supporting member and shelf adjacent to the outer sides thereof, said supporting member and shelf each having a hinge connection intermediate its length to fold in-
90 ward toward each other, supporting legs shiftably connected to said side bars, means for maintaining the shelf in its supporting position and comprising brace bars connected with the legs. 95

8. A folding supporting stand comprising a supporting member, a shelf therebelow, side bars hinge-connected to said supporting member and shelf, supporting legs shiftably
100 connected to said side bars, said supporting member and shelf each having a hinge connection intermediate its length, said legs being foldable against the edges of said side bars and having a length substantially coin-
105 ciding with the length of said side bars, means for maintaining the supporting member in its supporting position, and means for maintaining the shelf in its supporting position.

9. A folding supporting stand comprising
110 a supporting member, a shelf therebelow, side bars hinge-connected to said supporting member and shelf, supporting legs shiftably connected to said side bars, said supporting member and shelf each having a hinge con-
115 nection intermediate its length, and both foldable toward the center of the stand and wholly within the side bars, said legs being foldable against the edges of said side bars and having a length substantially coinciding
120 with the length of said side bars, means for maintaining the supporting member in its supporting position, and means for maintaining the shelf in its supporting position.

10. A folding supporting stand compris-
125 ing a supporting member, a shelf therebelow, side bars hinge-connected to said supporting member and shelf, supporting legs shiftably connected to said side bars, said supporting member and shelf each having a hinge con- 130

nection intermediate its length and both ing the shelf in its supporting position, and
foldable toward the center of the stand and means carried by the legs for maintaining ¹⁰
wholly within the side bars, said legs being the legs in their supporting position.
foldable against the edges of said side bars
5 and having a length substantially coincid- Signed at 1822 Park Row Building, city,
ing with the length of said side bars, means county, and State of New York, this 31st
for maintaining the supporting member in day of October, 1925.
its supporting position, means for maintain-

HUGO NEWMAN.