July 21 1925. 1,546,971

E. M. DENNISTON

SUPPORT FOR WORKMEN'S PLATFORMS

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Fig. 1.

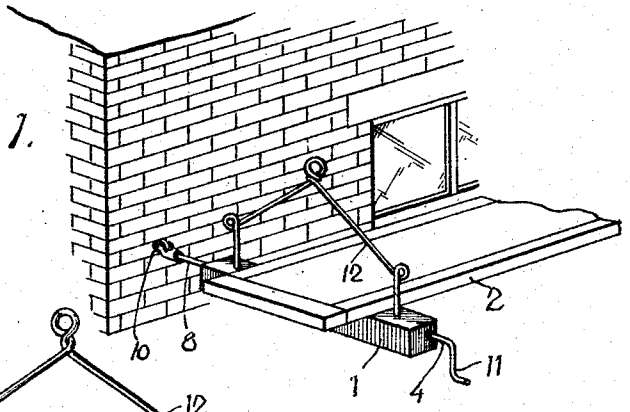


Fig. 2.

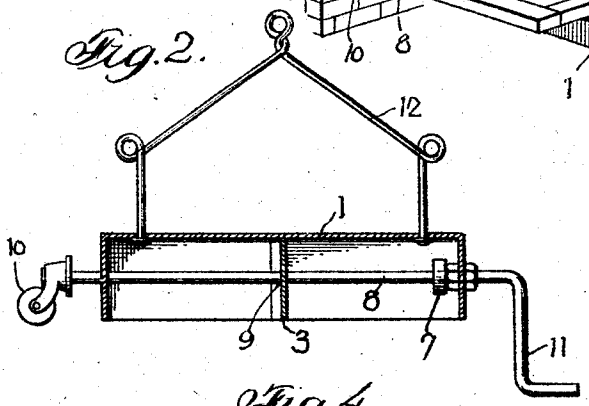


Fig. 3.

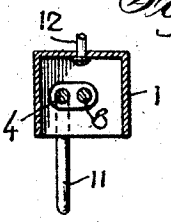


Fig. 4.

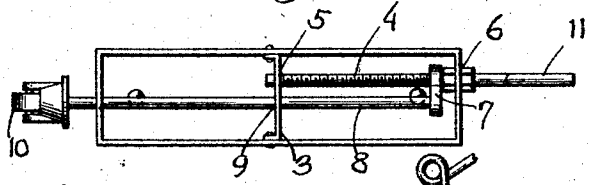
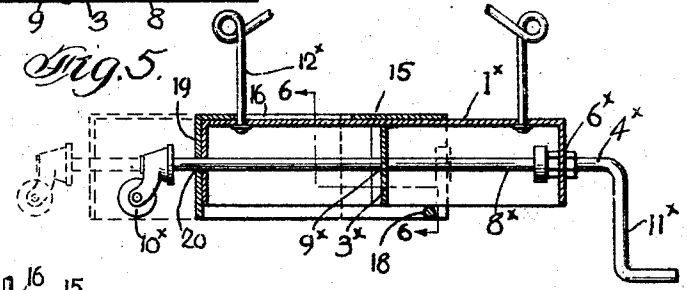


Fig. 5.



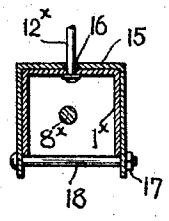


Fig. 6.

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Fig. 7.

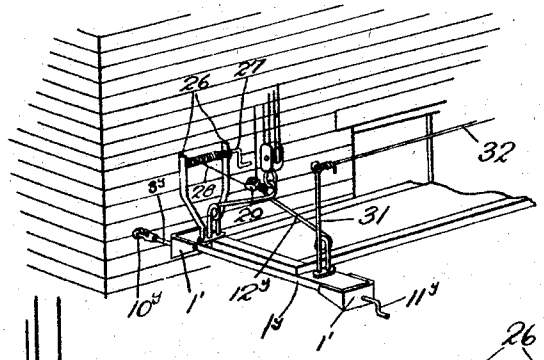


Fig. 8.

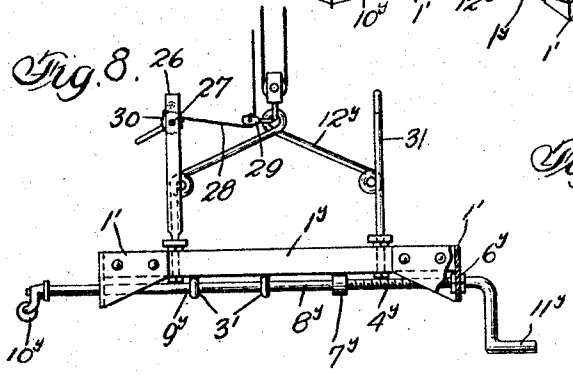


Fig. 9.

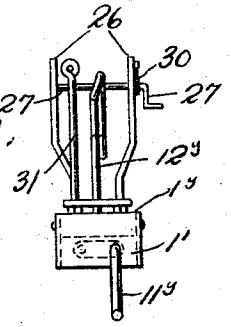
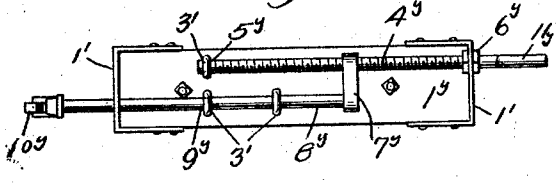


Fig. 10.



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Patented July 21, 1925. 1,546,971

UNITED STATES PATENT OFFICE.

EDGAR M. DENNISTON, OF BURLINGTON, IOWA.

SUPPORT FOR WORKMEN'S PLATFORMS.

Application filed January 2, 1925. Serial No. 149.

To all whom it may concern:

Be it known that I, EDGAR M. DENNISTON, a citizen of the United States, resident of Burlington, in the county of Des Moines and State of Iowa, have made a certain new and useful Invention in Support for Workmen's Platforms; and I declare the following to be a full, clear, and exact description of the same, such as will enable others skilled in the art to which it appertains to make and use the invention, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

Figure 1 is a side view of the invention as applied.

Figure 2 is a central longitudinal section of the same.

Figure 3 is a cross section of the same.

Figure 4 is a bottom plan view of the same.

Figure 5 is a view similar to Figure 2, showing a modification, with adjustment of parts shown in dotted lines.

Figure 6 is a section on line 6—6, Figure 5.

Figure 7 is a perspective view of a modification of the invention as applied.

Figure 8 is a side view of the same.

Figure 9 is an end view of the same.

Figure 10 is a bottom plan view of the same.

The invention has relation to the platforms for supporting painters and others working upon the sides of buildings and adjustable vertically and horizontally thereof, and particularly has relation to the transverse end bars or supports for such platforms, having for an object to provide an improved device or transverse end bar for such purpose.

The invention consists in the novel construction and combinations of parts, as hereinafter set forth.

In Figures 1 to 4 inclusive of the accompanying drawings illustrating an embodiment of the invention, the numeral 1 designates the transverse end bar or support and 2 the platform proper, said end bar of which there is one at each end of the platform, being made of suitable material, either metal or wood, and shown as being of hollow sheet metal form in Figs. 1 to 6 inclusive, open at the bottom and closed at the top and sides and having an intermediate transverse partition 3 about midway its length and wherein a screw rod 4 has a rotary bearing at 5 at its inner end, the other end of said screw threaded rod having a rotary bearing at 6 in the outer end wall of said bar. A traveling nut 7 has threaded engagement with said screw rod, said nut being laterally extended and carrying fast thereto a longitudinal rod 8, having slidable bearings at 9 in the partition 3 and in the inner end wall of the bar 1 and carrying at its inner end a roller or caster wheel 10, which is adapted to project into engagement with the side wall of the building and to travel along the same vertically or horizontally as the platform is adjusted.

The screw rod 4 is provided with a crank end 11, and upon operation thereof, the traveling nut 7 will be adjusted longitudinally to thereby adjust the platform 2 away from or towards the side wall of the building. The screw thread of the rod 4 will hold the adjustment of the traveling nut 7 and of the rod 8. Obviously other equivalent means may be used to adjust the longitudinal rod 8, retaining however the operating rod parallel to the longitudinal rod and having at its outer end a handle and at its inner end an actuating connection with the rod 8. The caster wheel 10 may be of any suitable material and have suitable cushioning means or tire. A suspension loop 12 is provided for each transverse end bar 1.

A modification of the invention is shown in Figures 5 and 6, wherein similar parts have similar reference characters differentiated by the exponent "x" the end bar 1^x is composed of two longitudinal sections 1^x and 15, the one fitting within and sliding relatively to the other, the main section 1^x having the transverse partition 3^x, aforesaid, and being in all respects as previously stated, the other section 15 fitting thereover and having in its top a slot 16 wherein one end of the suspension loop 12^x has engagement and thereby admitting of adjustment of the section 15 relatively to the section 1^x, the adjustment being secured by tightening nut 17 upon transverse screw rod 18 connecting the inner lower end portions of the section 15 to thereby clamp the elastic sheet metal side walls of the section 15 against the side walls of the section 1^x. The caster wheel rod 8^x has slidable bearings in the end wall 19 of the section 15 at 20 and serves to hold the sections 1^x and 15 against displacement or rela-

tive movement laterally at said end, the transverse bolt 18 engaging the lower edges of the section 1^x, at the other end thereof and acting to prevent lateral movement of the sections relative to each other as well as to secure the adjustment of the slidable sections. The transverse partition 3^x is a stiffener for the end bar or section 1^x, as well as providing for a rotary bearing of the screw rod 4^x and for a slidable bearing of the rod 8^x.

The platform 2 whereon the workmen are supported may be made wider by the adjustment of the end bar sections 1^x and 15, this being very important in some cases, as in plastering work or stucco work for instance.

Another modification of the invention is shown in Figures 7 to 10 inclusive wherein similar parts have similar reference characters differentiated by the exponent "y" and the body of the transverse end bar 1^y is made of wood, with heavy sheet iron end guards 1′, projecting downwardly below said body and providing for the rotary bearings 6^y aforesaid for the screw threaded rod 4^y, screw eyes 3′ being substituted for the partition 3, and in one of which the rod 4^y has the rotary bearing 5^y at its inner end and in another or others of which the rod 8^y has slidable bearings at 9^y, the caster wheel rod 8^y having slidable bearings in one of said end guards.

As best shown in Figure 7, each end bar 1 forms a support for vertical forks 26, wherein at the upper end thereof a small windlass rod 27 is journaled, the cable 28 from said windlass passing inwardly to guide pulley 29 and thence upwardly to the pulley of the upper block 4′ of the suspension device, a suitable pawl and ratchet device 30 being provided upon said windlass rod to secure the adjustment.

This windlass is located at the inner end of the end bar 1 and at the outer end thereof, an upright rod or standard 31 is supported preferably from one end of the suspension loop 12, a guard rope 32 being attached at each end to one of said rods or standards 31.

I claim:—

1 A transverse support for workmen's platforms, consisting of an elongated body, a longitudinal rod parallel to and having slidable bearings in said body and an anti-friction roller at its inner end, and means carried by said body for adjusting the said rod and said roller horizontally relatively to the body and including an operating rod parallel to said longitudinal rod and having rotary bearings in said body and at its outer end a handle and at its inner end an actuating connection with said longitudinal rod.

2. A transverse support for workmen's platforms, consisting of an elongated hollow body having a transverse partition, a longitudinal rod having slidable bearings in said partition and in the inner end wall of said body and carrying an anti-friction roller at its inner end, and means for adjusting said rod and said roller horizontally including a screw threaded rod parallel to said longitudinal rod and having rotary bearings in said partition and in the outer end wall of said body and at its outer end a handle and at its inner end a traveling nut connection with said longitudinal rod, the thread of said rod holding the adjustment of said nut connection.

3. A transverse support for workmen's platforms, consisting of an elongated body, a longitudinal rod parallel to and having slidable bearings in said body and an anti-friction roller at its inner end, and means carried by said body for adjusting said rod and said roller horizontally relatively to the body and including an operating rod parallel to said longitudinal rod and having rotary bearings in said body and at its outer end a handle and at its inner end an actuating connection with said longitudinal rod, and means for further elongating said body to admit of widening said platform including a member fitting upon said body and adjustable longitudinally thereof and having a slidable bearing for said longitudinal rod.

4. A transverse support for workmen's platforms, consisting of a hollow elongated body section having a transverse partition, a longitudinal rod having slidable bearings in said partition and in the inner end wall of said body section and an anti-friction roller, means for adjusting said rod and said roller horizontally including an operating rod parallel to said longitudinal rod and having rotary bearings in said partition and in the outer end wall of said body section and at its outer end a handle and at its inner end an actuating connection with said longitudinal rod, and means for further elongating said body section to admit of widening said platform including an auxiliary hollow section fitting over said body section and adjustable longitudinally thereof and having a bearing for said longitudinal rod and a transverse bolt connecting the lower outer end portions thereof and adapted to fix the adjustment and hold the two sections against lateral movement relative to each other.

In testimony whereof I affix my signature.

EDGAR M. DENNISTON.

Witnesses:
C. H. MOHLAND,
SELMA DUSTMAN.