

Jan. 8, 1929.

1,698,038

N. WARSHAW ET AL

TRUSSED PLATFORM

Filed Jan. 19, 1927

Fig. 1.

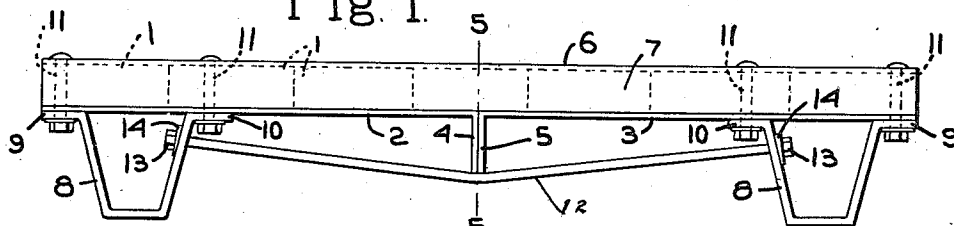


Fig. 2.

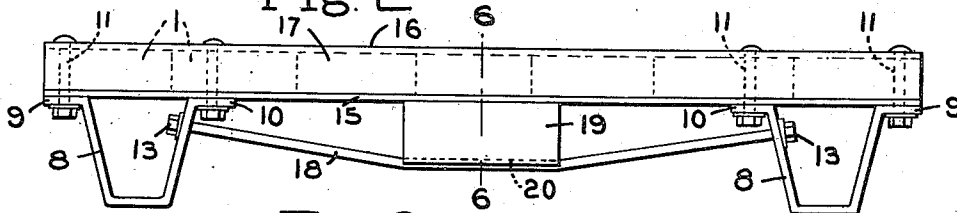


Fig. 3.

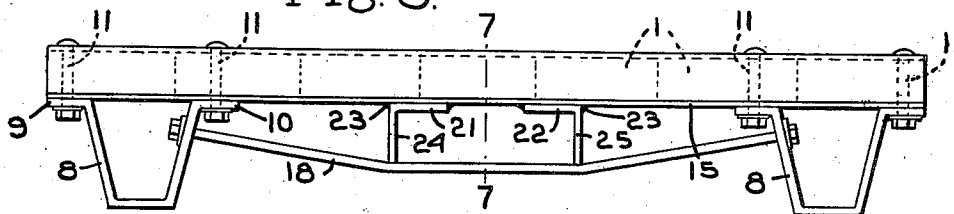


Fig. 4.

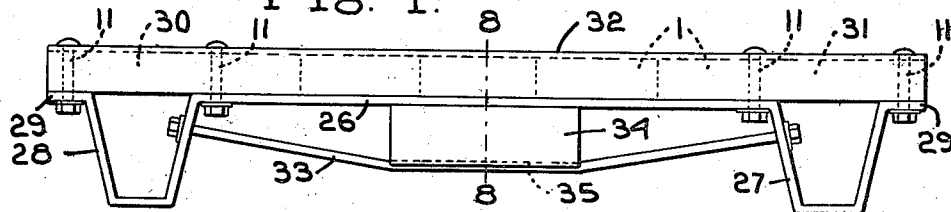


Fig. 5.

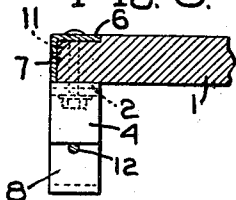


Fig. 6.

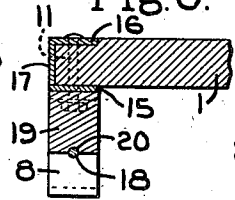


Fig. 7.

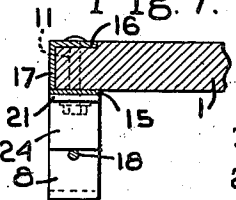
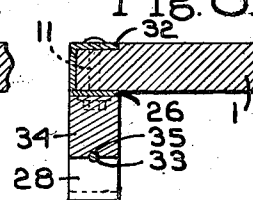


Fig. 8.



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TRUSSED PLATFORM.

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This invention relates to improvements in portable platforms of the type which are transported with the load thereon, from place to place, by elevating trucks, and the general object of the invention is to provide a platform of this type of light construction but of great rigidity, which can be readily and economically manufactured.

One of the principal objects of the invention is to provide a portable platform of this type having a floor and trussed side frames provided with legs.

A further object of the invention is to provide a platform of this type in which the truss is adjustable so that the rigidity of the platform may be maintained.

A further object of the invention is to provide a platform of this type in which the floor comprises a series of members, such as planks, with side frames comprising upper and lower plates and legs, the plates being secured together by bolts which clamp the platform members there-between and in which the truss rods connect the legs of each side frame, with spacing members between the truss rods and the lower plates of the side members.

Other objects and features of the invention will more fully appear from the following description and the accompanying drawings and will be particularly pointed out in the claims.

In the drawings:

Fig. 1 is a side elevation of a platform embodying the invention;

Fig. 2 is a side elevation of a different form of platform embodying the invention;

Fig. 3 is a side elevation of another form of platform embodying the invention;

Fig. 4 is a side elevation of a modified form of the invention shown in Fig. 2;

Fig. 5 is a detail view in vertical section on line 5—5 Fig. 1;

Fig. 6 is a detail view in vertical section on line 6—6 Fig. 2;

Fig. 7 is a detail view in vertical section on line 7—7 Fig. 3;

Fig. 8 is a detail view in vertical section on line 8—8 Fig. 4.

Several illustrative embodiments of the invention are shown in the accompanying draw-

ings and it will be obvious that other embodiment of the invention may also be made within the scope of the following claims.

The particular embodiment of the invention illustrated in Fig. 1 comprises a floor formed of a series of floor members such as wooden planks 1 which are supported at their ends by side frames comprising a plurality of preferably flat plates 2, 3 underlying the ends of the floor members and having downwardly turned end portions 4 and 5 extending at right angles to the plane and of the body of the plates 2 and 3 and upper plates 6 extending throughout the length of the floor. The upper plates 6 desirably are angle irons the vertical flanges 7 of which engage the ends of the floor members so that the upper plates embrace the top faces and ends of the floor members. The side frames also are provided with preferably U-shaped legs the vertical members 8 of which are provided with horizontal flanges 9 and 10 which engage the under faces of the plates 2 and 3. Bolts 11 passing through the horizontal flanges of the upper plates, the lower plates and the flanges 9 and 10 of the legs serve the upper and lower plates and legs rigidly together with the ends of the floor members clamped firmly there-between.

Truss rods 12 which extend beneath the edges of the downwardly extending end portions 4 and 5 of the lower plates are connected to the side frames preferably passing through suitable apertures in the members 8 of the legs and are provided at their ends with nuts 13 and suitable wedge shaped washers 14 intermediate of the nuts and the members 8. By reason of this construction the nuts may be adjusted to impose a desired tension upon the truss rods thereby providing very rigid side frames adapted to resist the weight of the load imposed upon the platform. These truss rods may be adjusted at any time to take up any slackness which may occur in the side frames by reason of distortion from overload or wear so that the platform can at all times be maintained in a rigid condition. The abutting down turned end portions 4 and 5 of the lower plates may if

desired be welded together to provide a substantial integral lower plate construction. The downward turned ends 4 and 5 in this construction serve as a spacer between the truss rods and the side frame construction of the platform.

In the construction illustrated in Fig. 2 the ends of the series of floor members 1 rest upon lower plates 15 which extend throughout the length of the platform. These plates preferably are flat. The upper plates desirably are in the form of angle bars 16 the horizontal flanges of which rest upon the upper faces of the ends of the floor members and the vertical flanges 17 of which engage the ends of the floor members. The legs are of U-shape as heretofore described and the flanges 9 and 10 thereof engage the lower plates 15. The upper plates, lower plates and flanges of the legs of the side frames are connected together by bolts 11 in the manner aforesaid and clamp the ends of the floor members between the upper and lower plates. In this construction the truss rods 18 extend through the vertical members 8 of the legs as aforesaid, but the spacing members are in the form of blocks 19 which are interposed between the under faces of the lower plates of the side frame and the truss rods. The lower edges of the blocks 19 desirably are provided with grooves 20 to receive the truss rods.

The construction illustrated in Fig. 3 is similar in all respects to that illustrated in Fig. 2 with the exception that the spacing member instead of being in the form of a block is composed of two angle plates. The horizontal flanges 21 and 22 are secured to the under faces of the lower plate by lines or spots of welding 23 and the vertical flanges 24 and 25 engage the truss rods 18 to provide the spacers required for the trusses.

The construction illustrated in Fig. 4 is similar to that illustrated in Fig. 2 with the exception that the legs are formed integral with the lower plates of the side frames. In this construction the lower plates of the side frames comprise flat plates 26 which extend throughout the major portion of the platform and then are bent downwardly and upwardly to provide the vertical members 27 and 28 of the U-shaped legs and horizontal flanges 29. In this construction also the end members 30 and 31 of the series of floor members 1 are considerably wider than the width of the upper ends of the leg portions. The flanges 29 of the leg portions instead of engaging the lower plates engage directly the floor members 30 and 31. The upper plate 32 desirably is in the form of an angle bar embracing the upper edges of the ends of the floor members and this plate is secured to the lower plate 26 and to the flanges 29 of the legs by suitable bolts 11 in the manner aforesaid. In this construction the truss rods 33 extend

through the members 27, and spacing blocks 34 are interposed between the truss rods and the lower plates of the side frames.

As illustrated herein the spacing blocks 34 are similar to the spacing blocks 19 shown in Fig. 3 and the lower edges thereof are provided with grooves 35 to receive the truss rods. It will however be obvious that any other form of spacer such as that shown in Fig. 3 may be employed. In all of these constructions the truss rods are provided with screw-threaded ends having nuts which are adjustable to impose the desired tension upon the truss rods.

It will be understood that the embodiments of the invention disclosed herein are illustrative and not restrictive and that various changes in form of construction and arrangement of parts may be made within the spirit and scope of the following claims.

Having thus described the invention, what is claimed as new, and desired to be secured by Letters Patent, is:

1. A portable platform comprising a floor, metallic side frames therefor having rigid legs at their ends, truss rods connecting the legs of the respective side frames, downwardly extending spacing means interposed between the central portions of the truss rods and the respective side frames and means for adjusting the tension of the truss rods.

2. A portable platform having a series of floor members, side frames comprising metallic supporting plates beneath the ends of the floor members and cooperating plates engaging the upper faces of the ends of said floor members, legs at the ends of said side frames, bolts passing through said plates and the floor members there-between acting to clamp the plates upon the ends of the floor members and also to secure the legs thereto, truss rods connecting the legs of the respective side frames, and spacing members between the truss rods and the respective supporting plates of the side frames and means for adjusting the tension of the truss rods.

3. A portable platform having a series of floor members, side frames comprising metallic supporting plates beneath the ends of the floor members and provided at their ends with legs, angle plates embracing the ends and upper faces of said floor members, bolts passing through said plates and the floor members there-between acting to clamp said plates upon the ends of the floor members and to secure the legs thereto, truss rods connecting the legs of the respective side frames, spacing members integral with said supporting plates between the truss rods and the respective supporting plates of the side frames and means for adjusting the tension of the truss rods.

4. A portable platform having a series of floor members, side frames comprising metallic supporting plates beneath the ends of

the floor members having at their ends U shaped supporting legs, upper plates engaging the upper faces of the ends of the floor members, bolts passing through said plates
5 and the floor members there-between acting to clamp the plates upon the ends of the floor members and also to secure the legs thereto, truss rods extending at their ends through the

adjacent members of the U shaped legs and spacing means integral with said supporting 10 plates between the truss rods and respective supporting plates of the side frames.

In testimony whereof, we have signed our names to this specification.

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