Nov. 17, 1931. H. T. HALLOWELL ET AL 1,832,774

PLATFORM

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Fig. 1.

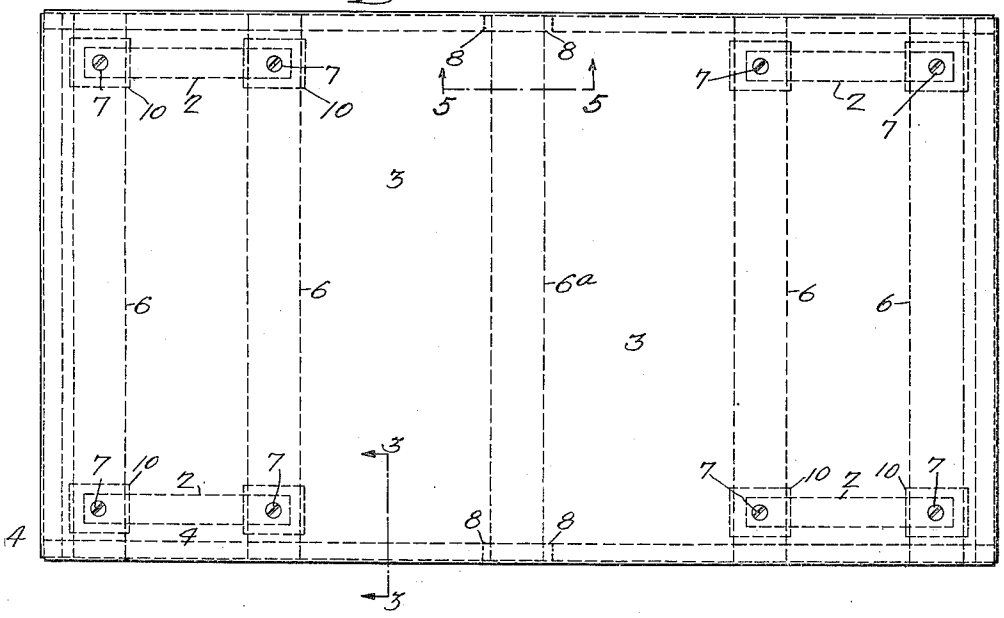
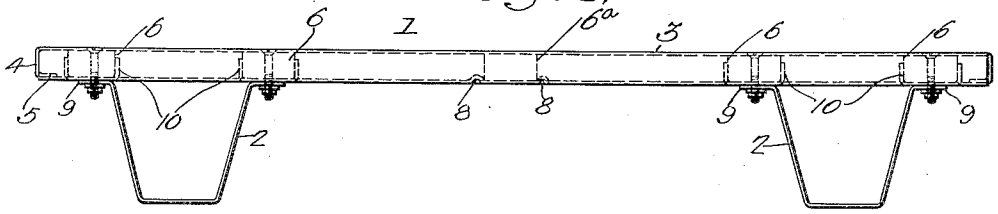


Fig. 2.



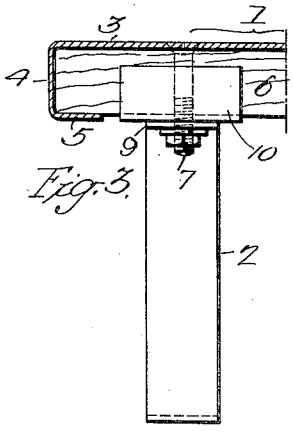


Fig. 3.

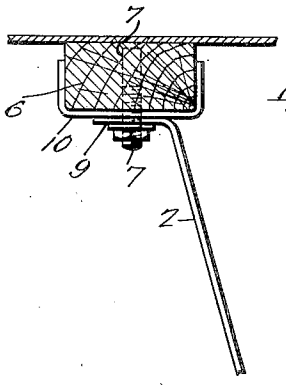


Fig. 4.

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Fig. 5.

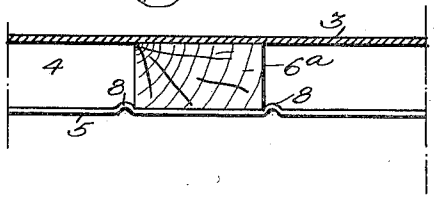


Fig. 6.

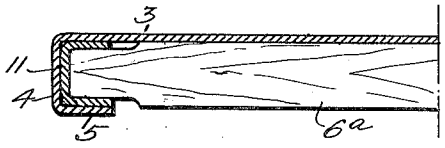


Fig. 7.

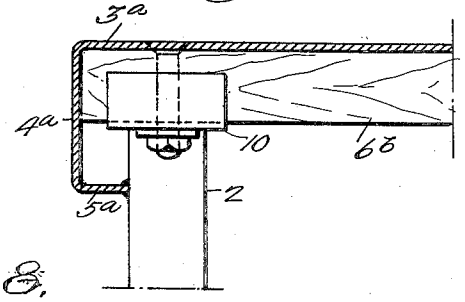
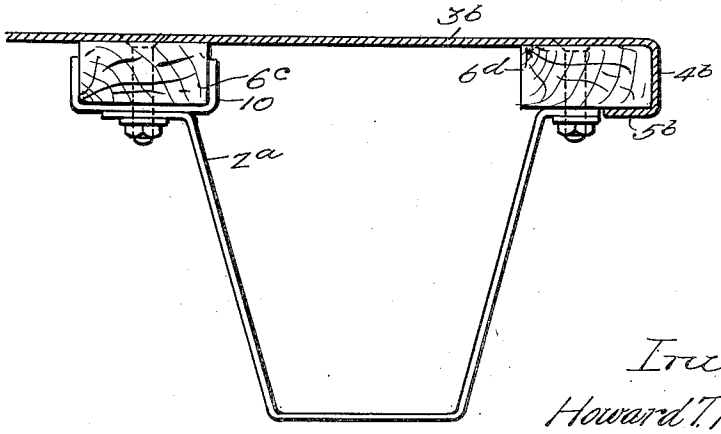


Fig. 8.



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UNITED STATES PATENT OFFICE

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PLATFORM

Application filed December 12, 1929. Serial No. 413,527.

Our invention relates to certain improvements in platforms used for supporting merchandise in warehouses and factories.

The object of our invention is to construct a platform partly of sheet metal and partly of wood and to make a comparatively light structure which will be of sufficient strength to carry the load for which it is intended.

The invention also relates to the construction of the body of the platform.

In the accompanying drawings:

Fig. 1 is a plan view of our improved platform;

Fig. 2 is a side view;

Fig. 3 is a sectional view on the line 3—3, Fig. 1;

Fig. 4 is a sectional view on the line 4—4, Fig. 1;

Fig. 5 is a sectional view on the line 5—5, Fig. 1;

Figs. 6 and 7 illustrate modifications of our invention; and

Fig. 8 is a sectional view illustrating another modification, in which one of the stringers is located at the end of the platform.

Referring to the drawings, 1 is the body of the platform and 2 are the supporting legs, which elevate the platform to sufficient distance above the floor so that a carrying truck can be inserted between the legs and under the platform.

The body portion 1 has a sheet metal floor 3, flanged at each end as at 4 and at each side, the flange being preferably inturned as at 5 so as to form a channel on all four sides of the truck.

6—6*a* are wooden stringers which extend from one side of the truck to the other, and the ends of these stringers are supported by the inturned flanges of the floor plate. The stringers 6 are secured to the plate 3 by bolts 7, which secure the legs 2 to the body of the truck. The center stringer 6*a* is held in position laterally by projections 8, forced from the inturned portion 5 of the side flange, as shown in Fig. 5.

Referring now to Figs. 3 and 4, the legs 2 are made of sheet metal bent into the form of a U and having extensions 9 at the upper ends through which pass the bolts 7. Shoes 10 of sheet metal are U-shaped in form and fit the lower portions of the wooden stringers 6, reinforcing the stringers at the point where the bolts 7 pass through said stringers. This reinforcing plate also acts as a chaffing plate for the ends of the legs 2.

In Fig. 6 a reinforcing channel member 11 is located within the channels formed by bending the floor plate 3, and the ends of the wooden stringers are reduced to fit this channel as shown in Fig. 6.

In Fig. 7 we have illustrated a modification which is designed for a platform to carry heavy loads. In this instance the flange 4*a* extends from the plate 3*a* a considerable distance below the bottom of the stringers 6*b*, and the inturned portion 5*a* of the flange 4 bears against the edge of the leg 2*a*, supporting the leg some distance from its connection with the wooden stringer.

In Fig. 8 we have illustrated a modification, in which one of the side members of the leg 2*a* is secured to a stringer 6*c*, on which is the shoe 10, while the other stringer 6*d* is located in the channel formed by the flange 4*b* and inturned portion of the flange 5*b* of the floor plate 3*b*. In this instance the extension of the leg is secured directly to the wooden stringer 6*d*, the bolt passing through the plate 3*b*, through the stringer and through a perforation in the extension of the leg.

By the above construction, it will be seen that we are enabled to make a comparatively light platform which will support heavy weights, and to so design the connections between the legs and the platform that the legs can be firmly secured in position without liability of becoming loose due to rough usage.

While we have described the stringers as made of wood, other materials may be used without departing from our invention.

We claim:

1. The combination in a platform, of a sheet metal plate forming the floor of the platform flanged at the sides, the flanges being inturned to form reinforcing channels at the sides of the platform; a series of wooden stringers extending from one side of the

platform to the other under the floor; U-shaped legs having extensions at their upper edges; and bolts securing the legs to the stringers and to the floor plates.

2. The combination in a platform, of a floor plate having inturned flanges at each side and at each end, forming reinforcing channels; a pair of wooden stringers at each end of the platform extending into the channels at the sides of the platform; legs located under the two stringers at each end of the platform and secured thereto and to the floor plate; a central transverse stringer extending from one side of the platform to the other and into channels at the sides of the floor plate; and means for holding the center stringer against lateral movement.

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