Oct. 4, 1932. A. A. BUREAU ET AL 1,880,765

PORTABLE PLATFORM OR SKID

Filed Jan. 1, 1930

Fig. 1.

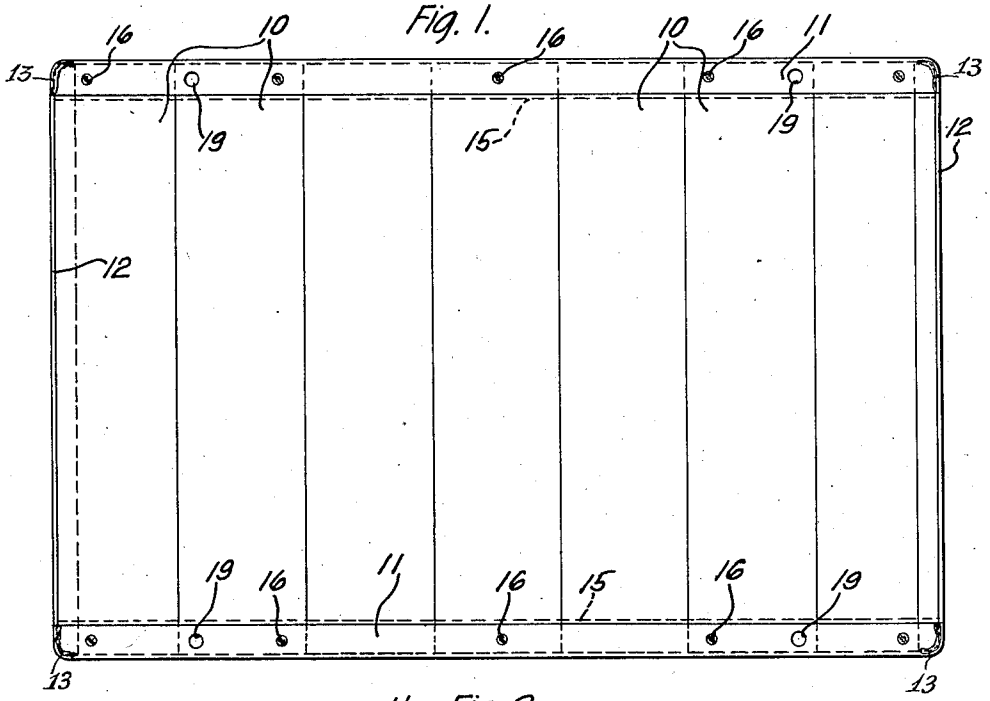


Fig. 2.

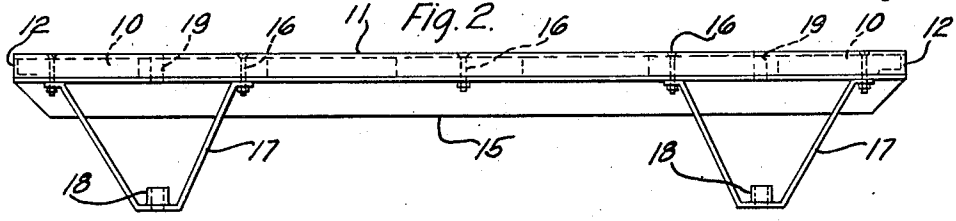


Fig. 3.

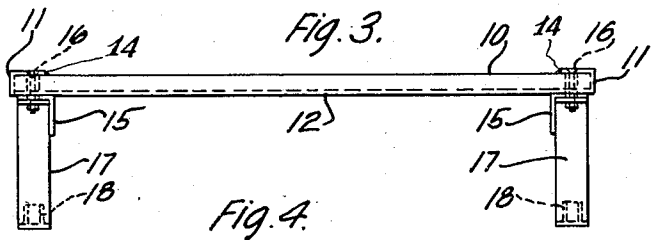


Fig. 6.

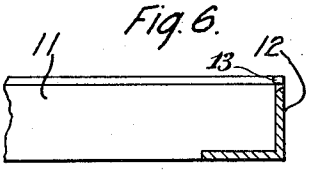


Fig. 4.

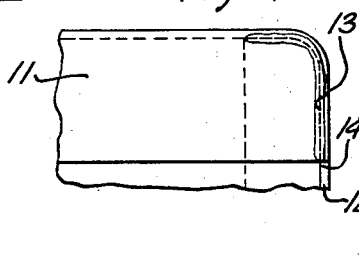
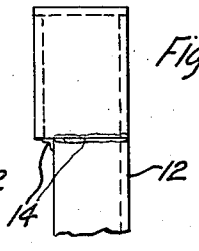


Fig. 5.



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Patented Oct. 4, 1932

1,880,765

UNITED STATES PATENT OFFICE

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PORTABLE PLATFORM OR SKID

Application filed January 1, 1930. Serial No. 417,842.

This invention relates to a portable platform or skid, and more particularly to a portable platform or skid to be conveyed by a lift truck.

An object of this invention is to provide a portable platform which is rigidly and securely constructed and which is reinforced to withstand extraordinarily heavy loads and exceptionally hard usage.

In accordance with this object, one embodiment of the invention consists of an elevated platform which has its floor embraced along its upper lateral and lower end edges by longitudinal and transverse angle members, respectively, which are welded together at their ends to provide a rigid unitary frame. The ends of the longitudinal angle members embracing the upper lateral edges of the floor have their downwardly depending flanges curved in the form of arcs to provide rounded corners for the platform which mesh with correspondingly rabbeted end portions of the transverse end angle members to afford flush connections therewith. Longitudinal runners with their corners severed for the purpose of safety secure the floor to said unitary frame and have legs attached therebeneath. Sockets are provided in the legs cooperating with apertures through the floor and framework to receive stakes for retaining articles on the platform.

A clear understanding of this one specific embodiment of the invention will be had from the following description, taken in connection with the accompanying drawing, wherein

Fig. 1 is a plan view of the platform;

Fig. 2 is a side elevational view thereof;

Fig. 3 is an end view of the same;

Fig. 4 is a fragmentary enlarged detailed view of the corner construction of the platform;

Fig. 5 is an end view of the corner construction shown in Fig. 4, and

Fig. 6 is a sectional view of this corner construction.

Referring now to the drawing wherein like reference numerals designate similar parts throughout the several figures, there is disclosed a plurality of transverse juxtapositioned planks or boards 10 which form the floor of this platform, and engaging the upper lateral edges of this floor or the ends of the planks 10 there is provided a pair of longitudinal L-shaped angle members 11—11 with their flanges disposed horizontally or inwardly and downwardly or vertically, respectively, for this purpose. A pair of relatively inverted transverse end L-shaped angle members 12—12 with their flanges disposed vertically or upwardly and inwardly or horizontally, respectively, embrace the lower end edges or ends of the platform floor. The ends of the longitudinal lateral angle members 11—11 project a short distance beyond the end transverse planks 10 and have their horizontal or inwardly extending flanges or webs severed at their outer end corners in the form of arcs or quarter circles and the vertical flanges or webs of these individual longitudinal angle members correspondingly have their ends bent or curved inwardly to conform to these arcs. A welded joint is then formed at each end of these longitudinal angles between the edge of the horizontal flange and the edge of the vertical flange thereof, as shown especially in Fig. 4 at 13 to provide rounded corners for the ends of the longitudinal angle members and the platform as a safety measure. In other words, the ends of the angle members 11—11 are cut or slit at the juncture between the horizontal and the vertical flanges or webs and the horizontal web is cut to correspond with the edges of the last plank 10 having the form of an arc of a circle and a straight portion as shown in Fig. 4. The projecting portions of the vertical flange or web left by this severing are then bent around the corners of the planks 10 so that their edges are in juxtaposition to the edges of their associated horizontal flanges or webs and a welded seam is then formed between these edges as illustrated in Fig. 4.

The transverse angle members 12—12 are likewise severed at the juncture between the horizontal and vertical webs for a short distance from their ends, the horizontal web is cut on the arc of a circle to correspond with the curve of the last plank 10 or that indicated at 13 of the angle members 11—11 and

portions of the vertical web of the transverse angle members 12—12 equal substantially to the removed portions of the angle members 11—11 are removed, thereby presenting in abutting relation the ends of the bent portions or the ends of the vertical web of the angle members 11—11 and the ends of the vertical web of the angle members 12—12. As shown in Fig. 4 the vertical flanges or webs of angle members 12—12 are thus rabbeted to provide a flush or even engagement between the associated surfaces. Welded seams are made in each corner of the platform between edges of the horizontal web of the transverse angle members 12—12 and the edges of the vertical webs 13 of the longitudinal angle members 11—11 and between the edges of the vertical webs of the transverse angle members 12—12 and the end edges of the webs 13 as shown at 14 (Fig. 5). Thus, the longitudinal and relatively inverted transverse end angle members so welded in round corners provide a fixed and permanent frame for embracing the ends and sides of the planks 10, the round corners serving to protect against injury while the platform is conveyed, and the inverted transverse end angle members 12 operating to protect the planks 10 against knocks or jams while the lift truck is run underneath either end of the platform. The end boards or planks 10 must, of course, be severed or rabbeted at their lower outer edges in order to be inserted between the longitudinal angle members 11—11 and the inverted end angle members 12—12, but it will be noted that these angle members provide a unique construction for the planks 10 are inserted between the horizontal flanges or webs of the angle members 11—11 and 12—12.

A pair of longitudinal runners or supporting angle members 15 with their lower outer corners cut off or severed for the purpose of safety retain the boards 10 within the aforedescribed framework consisting of the longitudinal and transverse end angle members 11—11 and 12—12, respectively, by being clamped thereto preferably by means of bolts 16 which extend through the planks and into said framework, and underneath the horizontal flanges of the longitudinal runners 15 legs 17 are secured by means of the bolts 16 to support the platform above the floor. The legs 17 have tubular sockets or receptacles 18 secured thereto, preferably by welding, which cooperate with corresponding apertures 19 extending through the platform framework and floor for receiving stakes or pegs (not shown) to retain articles carried by the platform. Thus, the legs 17 elevate the platform while the runners 15 with their severed end corners and the framework provided by the longitudinal angle members 11—11 and the transverse end angle members 12—12 affording the unitary rounded corner structure for retaining the floor serve to operate as a rigid and safe structure for forming the platform.

It is, therefore, apparent from the foregoing description that the invention provides a rigidly and safely constructed portable skid which is capable of undergoing severe usage and overcomes as far as possible danger from injury while it is being conveyed.

It will, of course, be understood that the invention is not to be limited by the specific embodiment herein described and illustrated, but is to apply to the scope of the appended claims.

What is claimed is:

1. In a portable platform, a floor, a pair of metallic members for securing the lateral edges of the floor with ends rounded at their outer corners, and a pair of metallic members for securing the end edges of the floor likewise with ends rounded at their outer corners, said ends of both pairs of metallic members being interwelded to provide a unitary frame with rounded corners.

2. In a portable platform, a floor, a pair of metallic members for securing the lateral edges of the floor and having end portions severed and bent into the shape of arcs to provide rounded corners for the platform, and a pair of metallic members for securing the end edges of the floor and having end portions severed and rounded for engaging the ends of the lateral edge securing metallic members.

3. In a portable platform, a floor, a pair of metallic members for securing the lateral edges of the floor and having end portions severed in the shape of arcs and other end portions conforming to and welded to the arc-shaped portions to provide rounded corners for the platform, and a pair of metallic members for securing the end edges of the flooring and having end portions rounded for engaging the rounded end portions of the lateral metallic members and other end portions rabbeted to provide flush connections therewith.

4. In a portable platform, a floor, a pair of angle members for securing the upper lateral edges of the floor and having their flanges turned inwardly and downwardly, respectively, the ends of the inwardly turned flanges being severed to form arcs where the inwardly turned flanges join the downwardly turned flanges, the ends of the downwardly turned flanges thereof being bent inwardly and welded to said arc shaped portions of the inwardly turned flanges to provide rounded corners for the platform, and a pair of angle members for securing the lower end edges of the flooring having their flanges turned inwardly and upwardly, respectively, the upwardly turned flanges being rabbeted at their ends to provide flush engagement with the aforementioned inwardly bent end portions of

the downwardly turned flanges of the lateral angle members, and said inwardly turned flanges of the lower end edge securing angle members having their outer end corners sev-
5 ered round to engage the aforementioned rounded corners provided by said lateral edge securing angle members.

5. In a portable platform, a floor, a pair of longitudinal metallic angle bars having
10 one arm thereof extending over the upper surface of the floor at the lateral edges thereof for securing the same, and a pair of transverse metallic angle bars having one arm thereof extending under the lower surface
15 of the floor at the ends thereof for protecting the same, the ends of the longitudinal and transverse angle bars at each corner of the platform being notched and formed for meshing relation and to provide rounded cor-
20 ners for the platform.

In witness whereof, we hereunto subscribe our names this 21st day of December A. D., 1929.

ARTHUR A. BUREAU.
25 EARL P. BURK.

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