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SLED.

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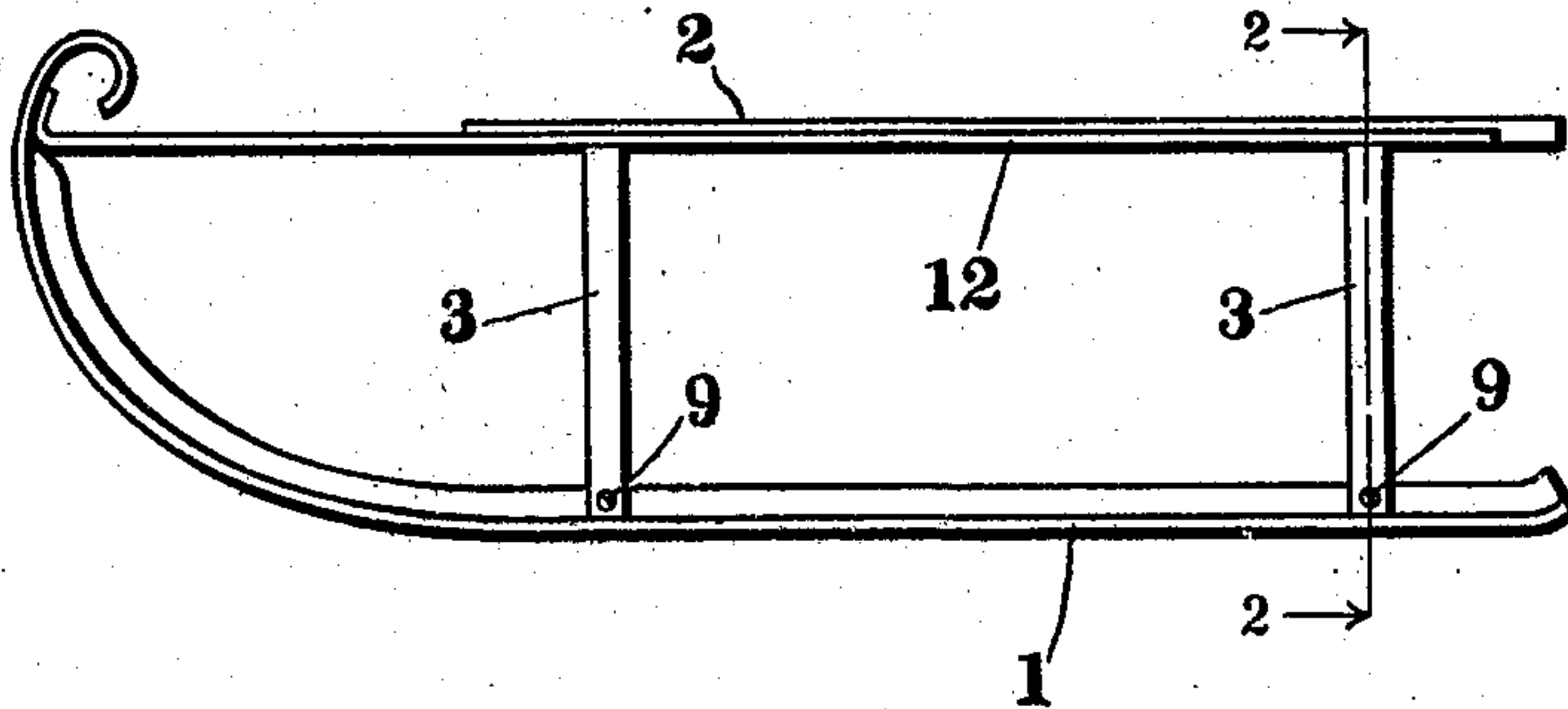


Fig. 1.

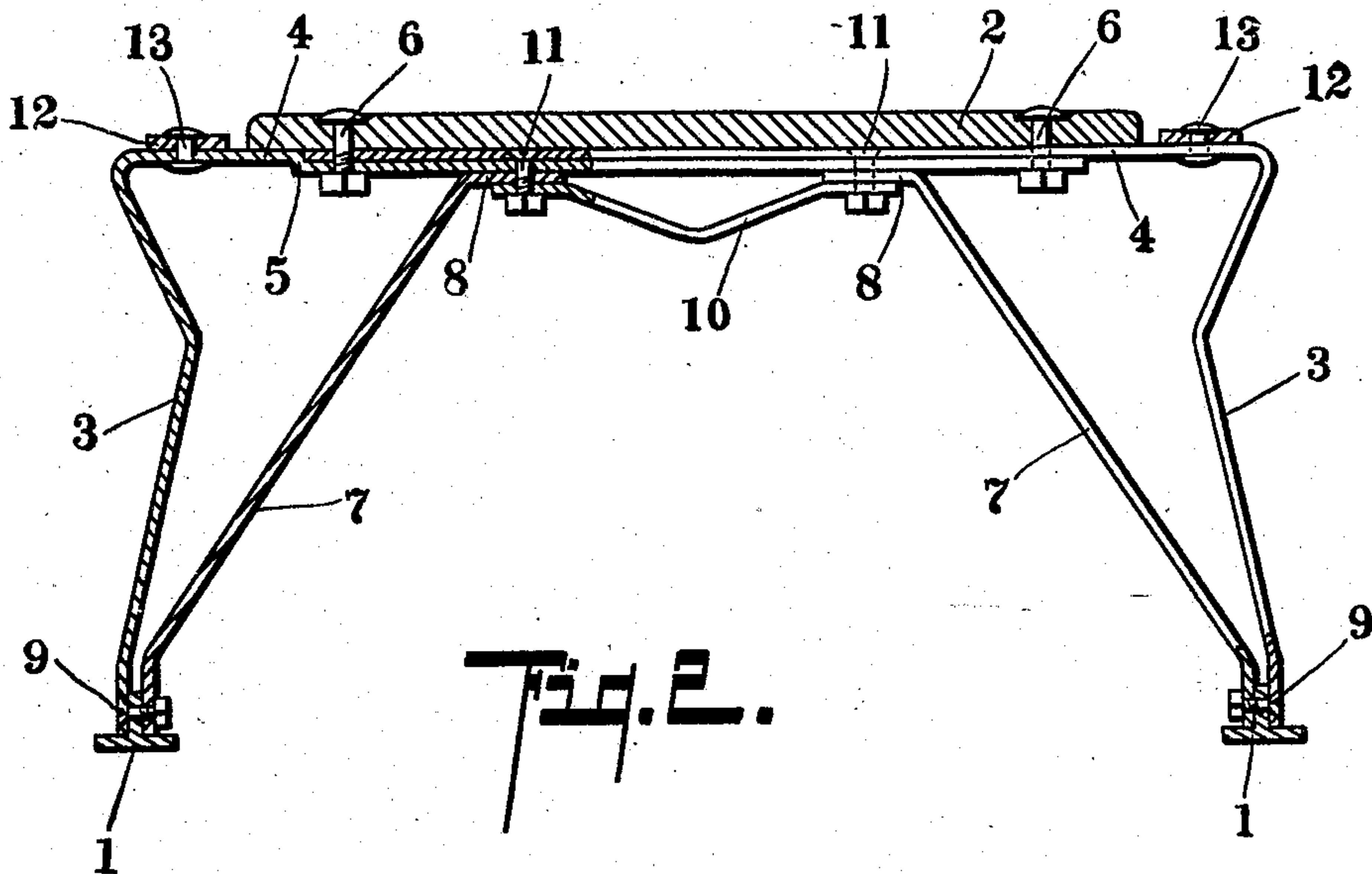


Fig. 2.

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UNITED STATES PATENT OFFICE.

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SLED.

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To all whom it may concern:

Be it known that I, CLAYTON D. HIMEBAUGH, a citizen of the United States, residing at Burr Oak, Michigan, have invented certain new and useful Improvements in Sleds, of which the following is a specification.

This invention relates to improvements in sleds.

The invention is particularly applicable to hand-sleds, and I have illustrated it as a hand-sled, although it may be applied to larger sleds, such as sleighs, cutters and the like.

The main objects of this invention are: First, to provide an improved sled which may be made of comparatively light material, and, at the same time, be very strong and durable. Second, to provide an improved sled which may be shipped in the knock-down, if desired, and easily assembled. Third, to provide an improved sled which is economical in material and to manufacture.

Further objects and objects relating to structural details, will definitely appear from the detailed description to follow.

I accomplish the objects of my invention by the devices and means described in the following specification.

The invention is clearly defined and pointed out in the claims.

A structure embodying the features of my invention is clearly illustrated in the accompanying drawing, forming a part of this specification, in which:

Figure 1 is a side elevation of my improved sled. Fig. 2 is an enlarged cross section taken on a line corresponding to line 2—2 of Fig. 1, looking in the direction of the little arrows at the ends of the section lines, parts being shown in full lines.

In the drawings, similar reference numerals refer to similar parts in both views.

Referring to the drawing, the runners 1 are formed of angle-iron, preferably of T-iron. The platform 2 is preferably of wood, although sheet metal may be used if preferred. The knees 3, which are formed of strips or bars of metal, are provided with horizontal extensions or bench portions 4, the bench portions of a pair of knees being overlapped, as clearly appears in Fig. 2, one of the bench portions 4 being off-set to receive the bench portion of the opposite knee, so that the top of the bench is suitable to receive the platform. The platform 2 is preferably secured by bolts 6 which are arranged through the

platform and through the overlapped bench portions 4.

The knee braces 7 are provided with horizontal portions 8 at their upper ends which lie against the under side of the bench. The upwardly-projecting arms of the angle-iron runners are preferably arranged between the lower ends of the knees 3 and the knee braces 7, and secured thereto by means of bolts 9 which are arranged through the knees, the upwardly-projecting arms and the braces, as clearly appears from the drawing. Between the knee braces, I arrange a truss brace 10. That is, the central portion of the brace is bent downwardly so that when it is secured to the bench and the knees, it serves as a truss for the bench. This brace 10, the knee braces and the overlapped bench portions of the knees are secured together by bolts 11. The rails 12 are preferably strips of iron, secured as by the rivets 13 to the benches at each side of the platform.

By this arrangement of the parts, I secure a structure which is very effectively braced and may be made of comparatively light material, and, at the same time, be strong and rigid. The structure is economical to produce, both as to material and the manner of assembling. While I illustrate and refer to bolts as means for connecting the parts, it will be readily understood that rivets or screws would answer this purpose.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent is:

1. The combination with a platform; runners formed of angle bars; a pair of knees formed of strips of metal having overlapped bench portions, one of said bench portions being off-set to receive the other; bolts arranged through said platform and said overlapped bench portions; a pair of knee braces extending from the bench to the runners, the upwardly-projecting arms of the runners being arranged between the lower ends of the knees and the lower ends of said knee braces, said knees, braces and runners being secured together; a truss brace arranged between said knee braces and lapped upon the upper ends of the same; and bolts arranged through the said bench portions of said knees, said braces and said truss brace.

2. The combination with a platform; runners formed of angle bars; a pair of knees formed of strips of metal having overlapped

bench portions, one of said bench portions being off-set to receive the other; a pair of knee braces extending from the bench to the runners, the upwardly-projecting arms of the runners being arranged between the lower ends of the knees and the lower ends of said knee braces, said knees, braces and runners being secured together; a truss brace arranged between said knee braces and lapped upon the upper ends of the same; and bolts arranged through the said bench portions of said knees, said braces and said truss brace.

3. The combination with a platform; runners formed of angle bars; a pair of knees formed of strips of metal having overlapped bench portions; a pair of knee braces extending from the bench to the runners, the upwardly-projecting arms of the runners being arranged between the lower ends of the knees and the lower ends of said knee braces, said knees, braces and runners being secured together; a truss brace arranged between said knee braces and lapped upon the upper ends of the same; and bolts arranged through the said bench portions of said knees, said braces and said truss brace.

4. The combination with a platform; runners; a pair of knees formed of strips of metal having overlapped bench portions; bolts arranged through said platform and said overlapped bench portions; a pair of knee braces; a truss brace arranged between said knee braces and lapped upon the upper ends of the

same; and bolts arranged through the said bench portions of said knees, said braces and said truss brace.

5. The combination with a platform; runners; a pair of knees formed of strips of metal having overlapped bench portions; a pair of knee braces; a truss brace arranged between said knee braces and lapped upon the upper ends of the same; and bolts arranged through the said bench portions of said knees, said braces and said truss brace.

6. The combination with a platform; runners; a pair of knees formed of strips of metal having overlapped bench portions, one of said bench portions being offset to receive the other, said overlapped portions extending nearly across said platform; bolts arranged through said overlapped bench portions near the ends thereof, and through said platform; and a pair of knee braces, said knee braces and said overlapped bench portion being secured together by bolts arranged therethrough, whereby said braces are secured in position, and said overlapped bench portions secured to each other.

In witness whereof, I have hereunto set my hand and seal in the presence of two witnesses.

CLAYTON D. HIMEBAUGH. [L. S.]

Witnesses:

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