Jan. 17, 1928.

R. DYSINGER

1,656,558

METAL HORSE

Filed May 2. 1927

2 Sheets-Sheet 1

Fig. 1.

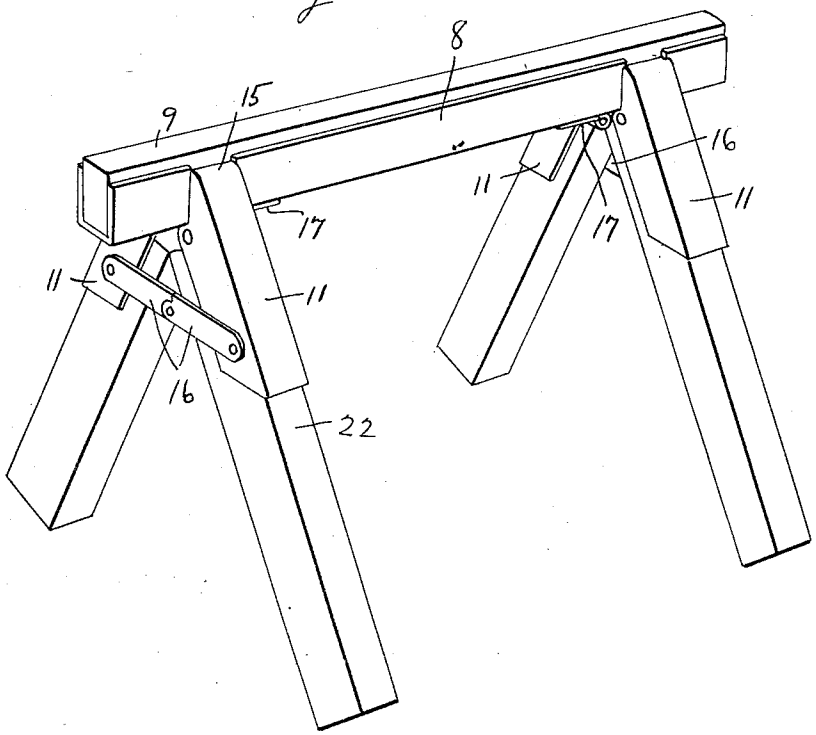


Fig. 6.

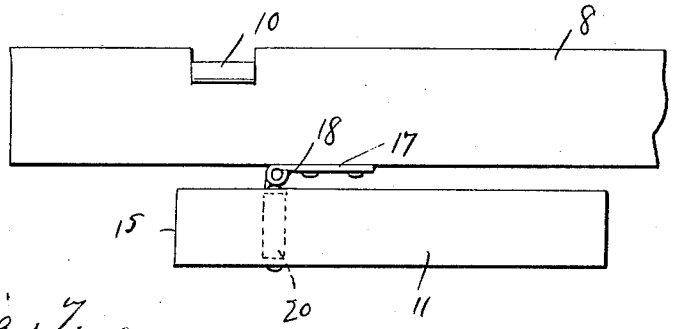
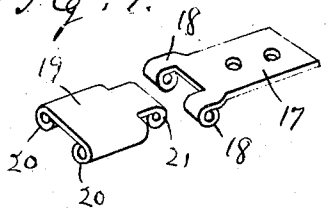


Fig. 7.



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2 Sheets-Sheet 2

Fig. 2.

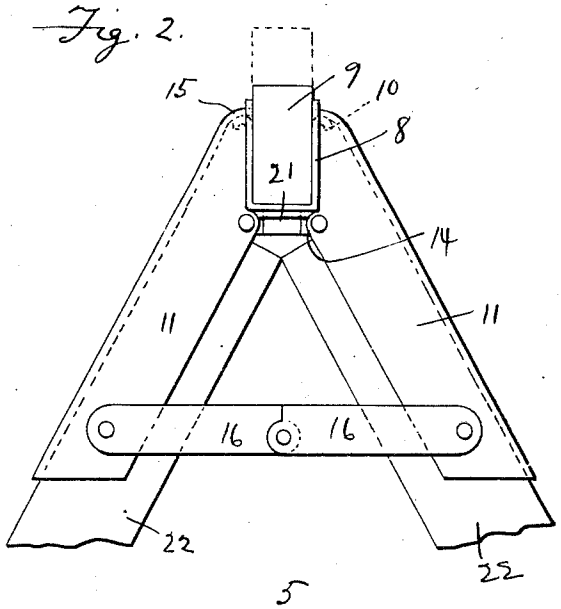


Fig. 3.

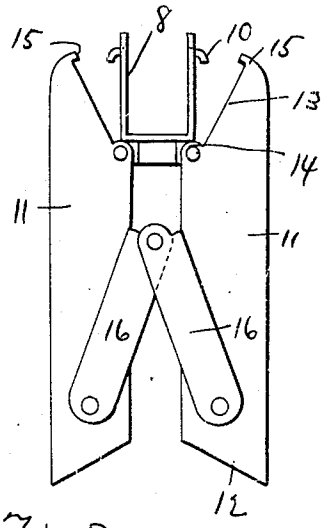


Fig. 4.

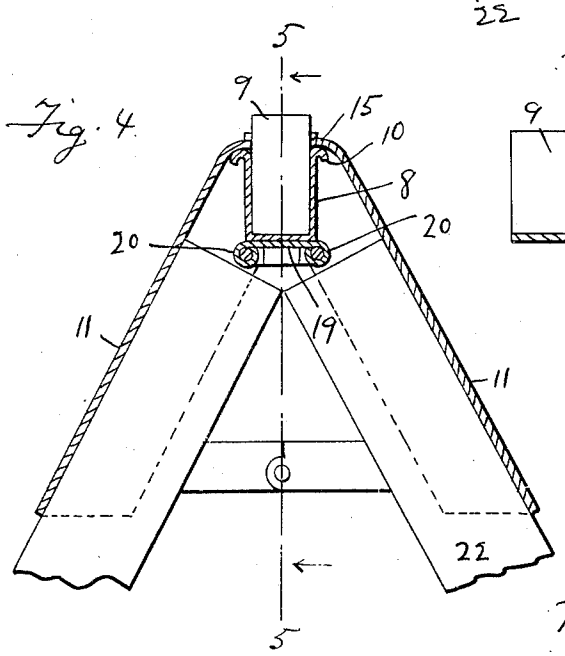
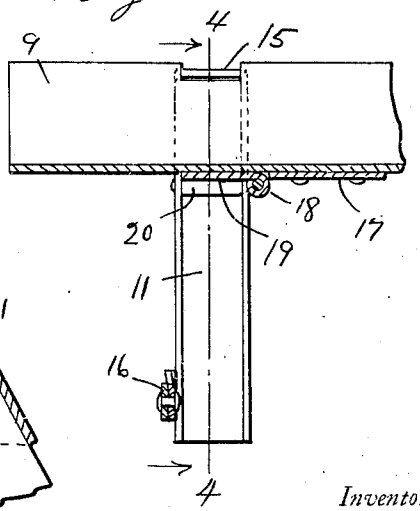


Fig. 5.



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Patented Jan. 17, 1928. 1,656,558

UNITED STATES PATENT OFFICE.

ROSS DYSINGER, OF CLARE, MICHIGAN, ASSIGNOR OF ONE-HALF TO FLOYD ALLEN, OF CLARE, MICHIGAN.

METAL HORSE.

Application filed May 2, 1927. Serial No. 188,310.

The present invention relates to a work supporting trestle such as is commonly referred to in the trade as a horse.

The ordinary horse, as is well known, is composed of wood and comprises a horizontal beam having pairs of downwardly diverging supporting legs suitably attached and braced.

These devices are usually bulky and not convenient in handling or in transportation.

What I propose, is an improved horse which is constructed principally from a novel arrangement of metal parts. Briefly, it comprises an open-ended channel containing a removable filler beam, and foldable and hingedly mounted supporting legs, constructed to accommodate extension legs whenever desirable or necessary.

The particular features and advantages derived from their novel association and arrangement will become more readily apparent from the following description and drawings.

In the drawings:—

Figure 1 is a perspective view of the complete device showing it set up ready for use.

Fig. 2 is an end view of the same.

Fig. 3 is also an end view with the legs partly folded.

Fig. 4 is a vertical section through the end portion of the device, the section being on line 4—4 of Fig. 5.

Fig. 5 is a sectional view taken at right angles on the plane of the line 5—5 of Fig. 4.

Fig. 6 is a fragmentary side view showing one leg unit completely folded.

Fig. 7 is a detail perspective view of the novel hinge which is of a three-way type.

In carrying out the invention I employ, as before indicated, a horizontal metal channel 8 which is open at its opposite ends and which is constructed to receive a wooden filler 9 of suitable proportions. Incidentally, this filler constitutes a rest for the work, and prevents the saw blade from digging into the metal side walls of the channel.

In connection with the latter, it will be noticed that adjacent the opposite ends metal tongues 10 are struck outwardly and bent down to simultaneously provide shoulders and notches.

The device also embodies a pair of duplicate supporting leg units, each unit being composed of legs 11 of identical construction. Each leg is of channel shaped cross section, has a beveled lower end 12 and has its upper end reduced in thickness to provide an abutment surface as at 13 and is provided with attaching ears 14. Also, the upper end of the leg is formed with an extension 15 providing a lip which is adapted to swing into the notch and to rest upon the shoulder 10. The legs are of course arranged opposite each other with their open sides disposed inwardly. Moreover links 16, are connected therewith and are connected together by a common rule joint.

In attaching these leg units to the channel bar 8, I employ hinges of the construction shown in Fig. 7. Directing attention to this figure, it will be seen that the reference character 17 designates a hinge plate which is fastened to the under side of the channel, and which is provided with hinge pin knuckles 18. Cooperating with this hinge plate is a leaf 19 formed with side knuckles 20 and with an end knuckle 21. The end knuckle 21 is adapted to be disposed between the knuckles 18 and a pivot and connecting pintle extends through said knuckles.

Hinge pintles also extend through the knuckles 20 and the aforesaid ears 14, thus swingably connecting the legs 11 to the channel bar 8. Thus, it will be seen that the legs are swingable in a direction at right angles toward and from the channel bar 8, and are also swingable as a unit beneath said channel bar, for instance as shown in Fig. 6. This double folding action provides a very compact and convenient product.

The legs 11 are about two feet in height in the actual product. However, under some conditions, it becomes necessary to increase the elevation, under which conditions I provide extension legs 22 which are fitted into the channels in the legs 11 as shown for instance in Fig. 1.

These may be of a proportion to fit snugly in the channels, and to come together in abutting relation at their upper ends as shown in said figure.

It is believed that a careful consideration of the description, drawings, and the specification, will enable the reader to obtain a clear understanding of the construction, and operation and advantages of the invention. Therefore, a more lengthy description is believed to be unnecessary.

Minor changes in shape, size, and arrangement, coming within the field of invention claimed may be resorted to if desired.

Having thus described my invention, what I claim as new is:—

1. In a work supporting trestle of the class described, a channel bar having portions of the side walls struck out to provide notches and tongues, said tongues being bent downwardly to form supporting shoulders, a plurality of supporting legs pivotally connected with said bar and having lips at their upper ends receivable in said notches and engageable with said shoulders in aiding in maintaining the legs in supporting position.

2. In a work supporting trestle of the class described, an open ended channel bar having portions of the side walls struck out adjacent the opposite ends to provide notches and tongues, said tongues being bent downwardly to form supporting shoulders, a supporting leg unit at each end of the channel bar, each unit comprising a pair of supporting legs having lips at their upper ends receivable in said notches and engageable with said shoulders for aiding in maintaining the legs in supporting position, two-way hinges for each leg unit, each hinge comprising a stationary hinge plate fastened to the bottom of the channel bar, and a swingably mounted leaf attached thereto, said leaf being formed on longitudinal edges with a knuckle receivable between apertured ears carried by the aforesaid legs, and pivot pintles passing through said ears and knuckles, whereby to permit said legs to be swung toward and from each other into folded relation and to then be folded beneath said channel bar.

In testimony whereof I affix my signature.

ROSS DYSINGER.