May 21, 1940. W. A. HYDE 2,201,138

HOIST SUPPORT

Filed May 25, 1939

Fig. 1.

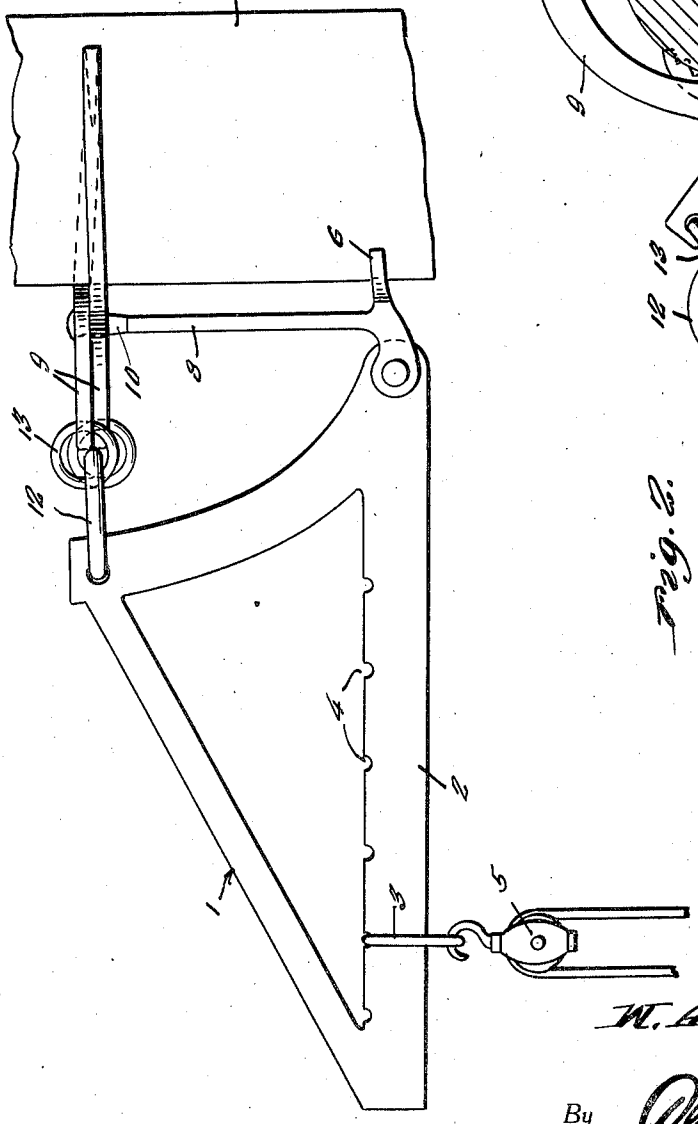
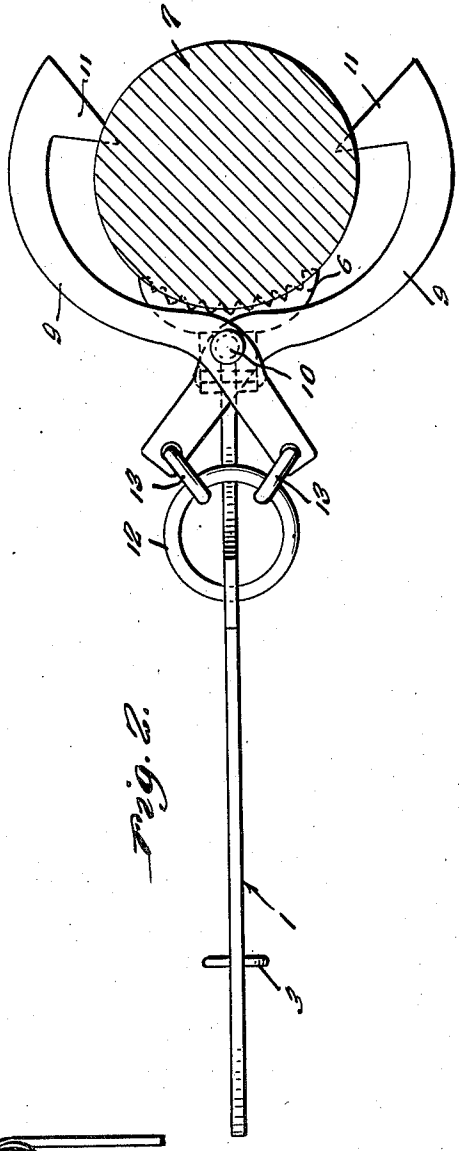


Fig. 2.



Inventor

W. A. Hyde

By Clarence A. O'Brien and Hyman Berman

Attorneys

Patented May 21, 1940 2,201,138

UNITED STATES PATENT OFFICE

2,201,138

HOIST SUPPORT

William Allen Hyde, Andrews, N. C.

Application May 25, 1939, Serial No. 275,729

4 Claims. (Cl. 248—221)

The present invention relates to new and useful improvements in hoist supports and has for one of its important objects to provide, in a manner as hereinafter set forth, a device of this character which is adapted to be expeditiously mounted on a pole or other support without the necessity of using extraneous securing means, the construction and arrangement being such that the grip of the device on the pole will be increased as the weight of the load increases.

Another very important object of the invention is to provide a support of the aforementioned character which will keep the equipment being hoisted from fouling the pole and wherein the block and tackle may be conveniently adjusted toward or away from the pole.

Other objects of the invention are to provide a hoist support of the character described which will be comparatively simple in construction, strong, durable, highly efficient and reliable in use, compact, light in weight and which may be manufactured at low cost.

All of the foregoing and still further objects and advantages of the invention will become apparent from a study of the following specification, taken in connection with the accompanying drawing wherein like characters of reference designate corresponding parts throughout the several views, and wherein:

Figure 1 is a view in side elevation of a hoist support constructed in accordance with the present invention, showing the device mounted on a pole.

Figure 2 is a top plan view of the device, the pole being shown in horizontal section.

Referring now to the drawing in detail, it will be seen that the embodiment of the device which has been illustrated comprises a substantially triangular bracket of suitable metal which is designated generally by the reference numeral 1. Mounted for sliding adjustment on the lower bar 2 of the bracket 1 is a ring 3. Longitudinally spaced notches 4 are provided in the upper edge of the bracket bar 2. The ring 3 is engageable selectively in the notches 4 for retaining said ring in adjusted position. The reference numeral 5 designates a conventional block and tackle which is suspended from the ring 3.

Pivotally mounted on the lower portion of the rear end of the bracket 1 is a toothed, arcuate heel 6 which is adapted to bear against a pole, as at 7, and bite thereinto. Rising from the heel 6 is an integral rod 8. The reference numeral 9 designates a pair of crossed levers which are journaled, at their points of intersection, on the enlarged upper end portion 10 of the rod 8.

The crossed, pivotally connected levers 9 are adapted to straddle and grip the pole 7 therebetween. Toward this end, the levers 9 are provided, on their free ends, with prongs or spikes 11 which are adapted to be embedded in the pole 7. The upper portion of the bracket 1 has loosely mounted therein a ring 12. The other ends of the levers 9 are operatively connected to the ring 12 by comparatively small rings or links 13.

It is thought that the manner in which the device functions will be readily apparent from a consideration of the foregoing. Briefly, the levers 9 are passed around the pole and closed in a manner to embed the prongs 11 therein, the heel 6 resting against the pole. The weight of the load on the bracket 1 simply closes the levers 9 more tightly on the pole through the medium of elements 12 and 13 and the toothed heel 6 is pressed more firmly against the pole. Thus, the greater the weight of the load the greater will be the grip of the device on the pole or other support. By simply adjusting the ring 3 longitudinally on the bar 2 of the bracket 1 the block and tackle 5 may be moved toward or away from the pole, as desired. To remove the device when there is no load thereon, of course, it is only necessary to open the levers 9. The levers 9 constitute coacting jaws which are adapted to clamp the pole therebetween.

It is believed that the many advantages of a hoist support constructed in accordance with the present invention will be readily understood and although a preferred embodiment of the device is as illustrated and discribed, it is to be understood that changes in the details of construction and in the combination and arrangement of parts may be resorted to which will fall within the scope of the invention as claimed.

What is claimed is:

1. A hoist support comprising a pair of crossed, coacting levers adapted to clamp a pole therebetween, a rod pivotally connecting said lever and depending therefrom, a heel on the lower end of said rod engageable with the pole, a bracket pivotally connected to said heel for swinging movement in a vertical plane, means operatively connecting the bracket to the levers for closing said levers, and means for suspending a hoisting apparatus from the bracket.

2. A hoist support comprising a bracket, a heel pivotally mounted on the lower portion of said bracket at one end thereof, a rod rising from said heel, a pair of crossed, coacting levers journaled

on said rod and adapted to grip a pole therebetween, the heel being engageable with the pole, and means for operatively connecting the upper portion of the bracket to the levers for closing said levers on the pole.

3. A hoist support of the character described comprising a substantially triangular bracket, an arcuate, toothed heel pivotally mounted on the lower rear portion of said bracket and engageable with a pole, a rod rising from said heel, a pair of crossed, coacting levers journaled on the upper portion of said rod and adapted to straddle the pole, prongs on one end of said levers adapted to bite into the pole, a ring loosely mounted on the upper portion of the bracket, and links operatively connecting the other ends of the levers to said ring.

4. A hoist support comprising a substantially triangular bracket including a horizontal lower bar having a series of longitudinally spaced notches in its upper edge, an adjustable ring slidable on said bar and engageable selectively in the notches for releasably retaining said ring in adjusted position, said ring constituting means for suspending a hoisting apparatus from the bracket, and means for detachably mounting the bracket on a pole, the last named means including a toothed heel pivotally mounted on the lower, rear portion of the bracket and engageable with the pole, a pair of crossed, coacting levers pivotally supported on the heel and adapted to grip the pole therebetween, and means operatively connecting said levers to the upper portion of the bracket for actuation thereby to closed position.

WILLIAM ALLEN HYDE.