July 8, 1952 H. A. PATTON 2,602,620

WHALER HOLDER

Filed July 14, 1950

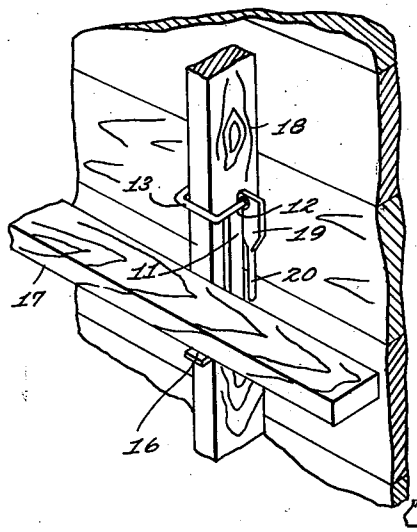


Fig. 1.

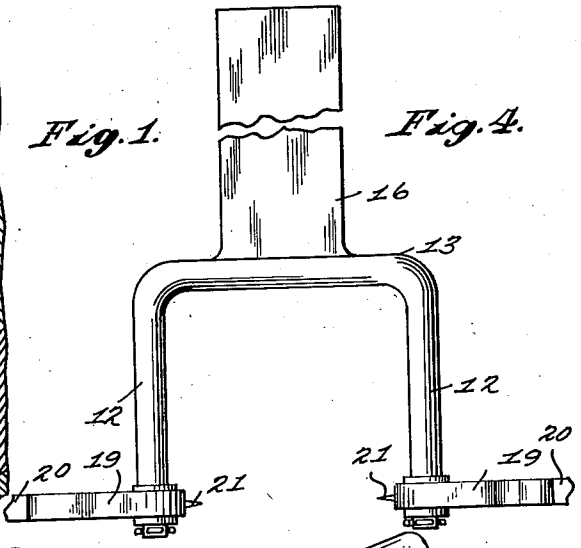


Fig. 4.

Fig. 2.

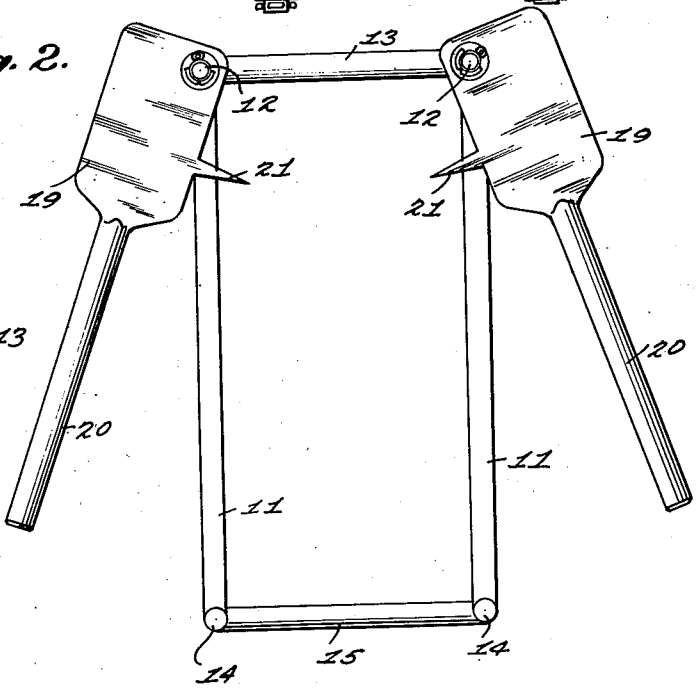
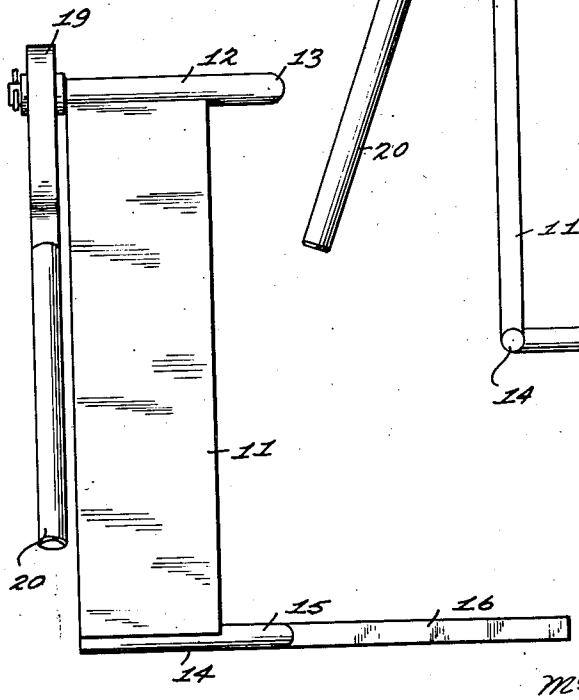


Fig. 3



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WHALER HOLDER

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2 Claims. (Cl. 248—216)

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This invention relates to concrete forms and accessories therefor, and more particularly to a whaler-supporting device for use in supporting the horizontal whaler studs in vertically spaced position on the outside portions of concrete forms during setting up the forms preparatory to pouring concrete.

A main object of the invention is to provide a novel and improved whaler-supporting device which is very simple in construction, which is easy to apply to a vertical stud of a concrete form, and which provides a firm support for holding a horizontal whaler stud in position for securement to the concrete form.

A further object of the invention is to provide an improved, removable supporting device for supporting the horizontal whaler studs applied to the wooden forms used for pouring concrete, said supporting device involving only a few parts, being inexpensive to manufacture, being movable into gripping position with respect to a vertical stud by very simple manual operations, and being readily removed when its use is no longer required.

Further objects and advantages of the invention will become apparent from the following description and claims, and from the accompanying drawings, wherein:

Figure 1 is a perspective view of a portion of a concrete form showing an improved whaler-supporting device constructed in accordance with the present invention applied to one of the vertical stud members of the concrete form;

Figure 2 is a front elevational view of an improved whaler-supporting device according to the present invention, as employed in Figure 1;

Figure 3 is a side elevational view of the whaler-supporting device of Figures 1 and 2;

Figure 4 is a fragmentary top plan view of the whaler-supporting device of Figures 1 to 3.

Referring to the drawings, and more particularly to Figures 2, 3 and 4, the supporting device comprises a pair of parallel, elongated side bars 11, 11, to the top edges of which are respectively secured the legs 12 of a first U-shaped rod member 13, and to the bottom edges of which are respectively secured the legs 14 of a second U-shaped rod member 15 vertically aligned with the U-shaped rod member 13. Rigidly secured to the mid-portion of the bight of the bottom U-shaped member 15 is an outwardly extending, arm or flat bar element 16 which is substantially coplanar with the U-shaped rod member 15, as shown in Figure 3. The bar member 16 is of substantial length and is adapted to underlie a horizontal stud member 17, shown in Figure 1, to support

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said horizontal stud member substantially in transverse engagement with a vertical stud member 18 to which the supporting device is secured, as will be presently described.

Designated at 19, 19 are respective, levers or substantially rectangular plate members pivotally secured at their top inner corners to the end portions of the legs 12 of the upper U-shaped rod member 13. Integrally carried by the plate members 19, 19 and extending axially with respect to said plate members are the respective depending handle rods 20, 20. The inner side edge of each rectangular plate member 19 is provided at its intermediate portion with a piercing means or an inwardly extending spur element 21, as shown in Figure 2.

In using the device, the U-shaped top and bottom rod elements 13 and 15 are engaged around the vertical stud 18, as shown in Figure 1, at the proper elevation corresponding to that at which the horizontal whaler stud 17 is to be disposed, and the plate members 19, 19 are rotated inwardly toward the side surfaces of the vertical stud 18 by means of the handles 20, 20. This causes the spur elements 21, 21 to become embedded in the vertical stud 18, thereby locking the device to the vertical stud. When the device has been secured to the vertical stud, as above described, the bar member 16 projects outwardly and defines the horizontal support on which the whaler stud 17 may be placed while it is being mounted on the form. In securing the device, the handles 20, 20 are held in spread-apart positions and are then rotated downwardly and inwardly to a vertical position, shown in Figure 1, causing the spurs 21, 21 to become firmly embedded in the vertical stud 18. To detach the device from the vertical stud 18 when its use is no longer required, it is merely necessary to move the handle members 20, 20 upwardly and away from the side surfaces of the vertical stud 18, thereby withdrawing the spur elements 21, 21 from the vertical stud and freeing the device for removal from said vertical stud.

Although a specific embodiment of an improved supporting device for whaler studs for use in concrete forms has been disclosed in the foregoing description, it will be understood that various modifications within the spirit of the invention may occur to those skilled in the art. Therefore, it is intended that no limitations be placed on the invention except as defined by the scope of the appended claims.

What is claimed is:

1. A whaler support adapted to embrace a ver-

tical stud member of concrete form comprising a pair of bars arranged in parallel spaced relation, a first U-shaped member arranged transversely of said bars adjacent one of the ends of the latter and having a bight facing and spaced from said bars with the portion of its legs inwardly of the free ends thereof secured to said one ends of the bars, a second U-shaped member arranged in parallel spaced relation with respect to said first named member adjacent the other ends of said bars and having the bight facing and spaced from said bars with the portion of its legs inwardly of the free ends thereof secured to said other ends of the bars, a lever arranged longitudinally of and spaced from each of said bars and having one end connected to the free end of the adjacent leg of said first named member for pivotal movement about said last named free end, an arm positioned exteriorly of and projecting longitudinally of said first named member, and opposed piercing means on said levers intermediate the ends of the latter.

2. A whaler support adapted to embrace a vertical stud member of concrete form comprising a pair of bars arranged in parallel spaced relation, a first U-shaped member arranged transversely of said bars adjacent one of the ends of the latter and having the bight facing and spaced from said bars with the portion of its legs inwardly of the free ends thereof secured to said one end of the bars, a second U-shaped member arranged in parallel spaced relation with respect to said first named member adjacent the other ends of said bars and having the bight facing and spaced from said bars with the portion of its legs inwardly of the free ends thereof secured to said other ends of the bars, a lever embodying a rectangular plate and a handle depending from said plate arranged longitudinally of and spaced from each of said bars and having the corner of said plate contiguous to and connected to the free end of the adjacent leg of said first named member for pivotal movement about said last named free end, an arm positioned exteriorly of and projecting longitudinally from the bight of said first named member, and opposed spur elements on said levers intermediate the ends of the latter.

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