

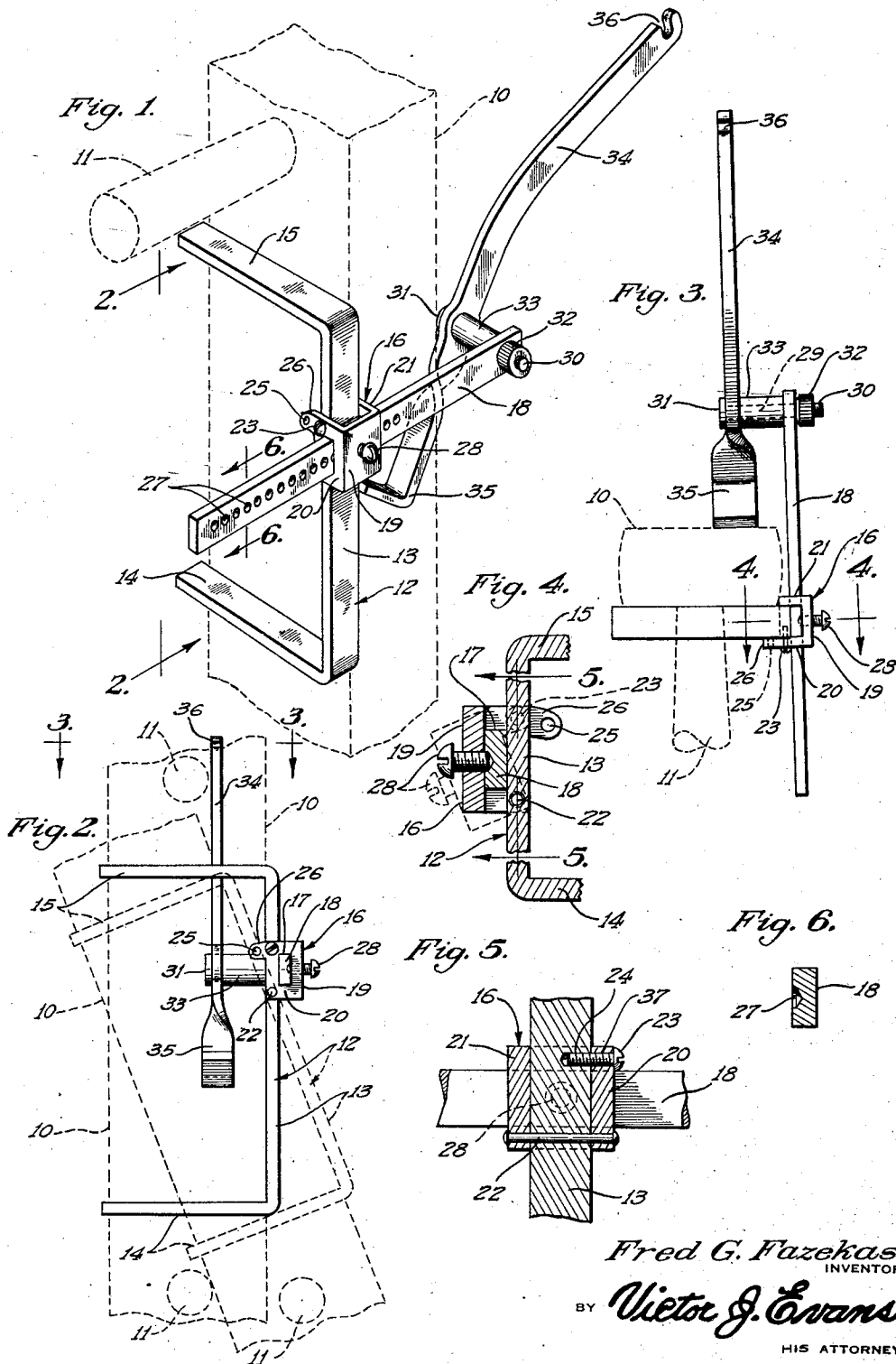
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SUPPORTING DEVICE

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SUPPORTING DEVICE

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This invention relates to certain novel improvements in supporting devices, and has for its principal object the provision of an improved construction of this character which will be highly efficient in use and economical in manufacture.

Among the several objects of this invention is to provide an improved supporting device which may be advantageously used to support a wide variety of objects from either a horizontal or a vertical support.

Another object of the invention is the provision of an improved device for supporting a hand box for tools, etc., on a ladder in such a manner that the paint bucket or tool box will be out of the workman's way and accessible without the necessity of reaching through the rungs of the ladder to dip the paint brush in the bucket or to secure nails or a tool from the hand box.

Another object of the invention is to provide an improved supporting device of the character described herein which is particularly adapted for the use of painters and which is so arranged that after a certain portion of a surface is painted the paint bucket can be expeditiously moved to a lower rung of the ladder by raising the paint bucket with one hand and supporting my improved device with the other hand in such a manner that the pressure of the supporting arm, embodied in the device, against the ladder rail is released so that the device may be freely moved up or down the ladder.

A further object of the invention is to provide an improved device of the character described herein which can be advantageously used on a scaffold or on any upright support.

An additional object of the invention is to provide an improved supporting device which can be advantageously used by campers to support cooking utensils over a fire.

Other objects will appear hereinafter.

The invention consists in the novel combination and arrangement of parts to be hereinafter described and claimed.

The invention will be best understood by reference to the accompanying drawings,

showing the preferred form of construction and in which:

Fig. 1 is a perspective view of a preferred form of construction of the invention showing the manner of attaching the device to a ladder;

Fig. 2 is a side elevational view of the invention as depicted in Fig. 1 and taken substantially on the line 2—2 in Fig. 1;

Fig. 3 is a top plan view of the invention taken substantially on the line 3—3 in Fig. 2;

Fig. 4 is a sectional detail view taken substantially on the line 4—4 in Fig. 3;

Fig. 5 is a sectional detail view taken substantially on the line 5—5 in Fig. 4; and

Fig. 6 is a sectional detail view taken substantially on the line 6—6 in Fig. 1.

Referring to the drawings wherein a preferred form of construction of the invention is depicted, indicated at 10 is one rail of a ladder which includes the rungs 11. While in the drawings I have illustrated the invention as associated with a ladder this is not to be taken as a limitation of the use thereof since the invention is adapted for use on any upright support made of 2" x 4" material or the like.

My improved device includes a U-shaped bracket generically indicated at 12 and which includes the bight portion 13 and limbs 14 and 15. A clamp generically indicated at 16 is provided and a slot 17 extends through this clamp. A bar 18 is slidably mounted in the slot 17 for reasons to be made apparent presently. The clamp 16 is substantially box like in construction and includes the rear wall 19, and side walls 20 and 21. Aligned openings are provided in the walls 20 and 21, and these openings are aligned with an opening in the bight portion 13 of the bracket 12 so that a pintle 22 extends therethrough to pivotally mount the clamp 16 on the bight portion 13. A screw 23 is mounted in a threaded opening in the wall 20 of the clamp 16 and this screw is extensible into a threaded opening 24 in the side of the bight portion 13 so that the clamp 16 may be prevented from moving on the bracket 12. A threaded opening 25 is provided in a projection 26 of the wall 20 so

that when the ladder 10 and the bracket 12 are tipped into the angular position shown in dotted lines in Fig. 2, the screw 23 may be inserted into the opening 25 which will then be aligned with the opening 24 and in this manner the clamp 16 may be kept in horizontal position when the ladder 10 and bracket 12 are disposed at an angle with the vertical as when the ladder is tilted against the side of a building.

A plurality of recesses 27 are provided in one side of the bar 18 and a screw 28 is mounted in a threaded opening in the rear wall 19 so as to be expanded into any desired one of the recesses 27. It will be seen, therefore, that the bar 18 is slidable through the slot 17 and may be secured in any desired position by tightening the screw 28.

Extended through an opening in one end of the bar 18 is a screw 29 on which is provided a head 31 and this screw 29 includes a threaded end portion 30 which projects beyond the bar 18 so that a knurled nut 32 may be mounted thereon. A collar 33 is provided on the screw 29 and pivotally mounted on the screw 29 between the head 31 and the collar 33 is an arm 34 which includes a gripping jaw 35. A slot 36 is provided in the arm 34 at the end thereof opposite the jaw 35 and this slot 36 is intended to receive the bail of a paint bucket or any means which will enable an object, for example, a tool box, to be suspended from the arm 34.

In a typical use of the invention, which is to support a paint bucket, the bracket 12 is disposed inside the rail 10 of the ladder and the bar 18 is then adjusted so as to extend outwardly of the rail 10 a suitable distance, after which the screw 28 is tightened into one of the recesses 27, it being understood that the screw 23 is disposed in either the threaded opening 37 in wall 20 or in the opening 25 in the projection 26 so as to extend into the opening 24, depending upon the position of the ladder 10 with respect to the vertical. The arm 34 is then tilted toward the ladder rail 10 and the bail of the paint bucket inserted into the slot 36, after which the arm 34 is lowered so that the jaw 35 will engage the rail 10 on the side thereof opposite the bracket 12, as best seen in Fig. 3, which is a top plan view. It will be apparent, therefore, that the jaw 35 will firmly grip the rail 10 and prevent slipping of the device.

From the foregoing description of the invention it will be readily apparent that since the jaw 35 will grip any surface when an object is suspended from the arm 34 the device may be used for many purposes and may be used on either a vertical or horizontal support, such as, for example, suspending pots and pans above a camping fire in which case a vertical or horizontal support such as a 2" x 4" is all that is needed so as to provide

a gripping surface for the jaw 35, suspending a workman's tool box, etc., from a ladder or scaffold, and in many other ways which will occur to persons using the device. It is manifest, therefore, that I have provided an improved device of the character described hereinbefore which is simple in construction and economical in manufacture, while being adaptable to numerous uses.

While I have illustrated and described the preferred form of construction for carrying my invention into effect, this is capable of variation and modification, without departing from the spirit of the invention. I, therefore, do not wish to be limited to the precise details of construction set forth, but desire to avail myself of such variations and modifications as come within the scope of the appended claims.

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

1. A device for supporting articles from either horizontal or vertical supports comprising a pivotally mounted arm including a jaw adapted to grip a support, a member pivotally connected to said arm, a clamp through which said member is slidable, and a bracket pivotally connected to said clamp so as to be movable in a plane at rightangles to the direction of movement of said member through said bracket.

2. A device for supporting articles from either horizontal or vertical supports comprising a pivotally mounted arm including a jaw adapted to grip a support, a member pivotally connected to said arm, a clamp through which said member is slidable, a bracket pivotally connected to said clamp so as to be movable in a plane at rightangles to the direction of movement of said member through said bracket, and means on said clamp for enabling said bracket to be tilted at an angle with the horizontal while retaining said arm in position so that the direction of movement thereof is in a vertical plane.

3. A device for supporting articles from either horizontal or vertical supports comprising a pivotally mounted arm including a jaw adapted to grip a support, a member pivotally connected to said arm, a clamp through which said member is slidable, a bracket pivotally connected to said clamp so as to be movable in a plane at rightangles to the direction of movement of said member through said bracket, said slidable member having a plurality of spaced apart recesses therein, and a screw in said clamp receivable in said recesses for securing said slidable member in a predetermined position.

4. A device for supporting articles from either horizontal or vertical supports comprising a pivotally mounted arm including a jaw adapted to grip a support, a member pivotally connected to said arm, a clamp

through which said member is slidable, a substantially U-shaped bracket including a bight portion pivotally connected to said clamp so as to be movable in a plane at rightangles to the direction of movement of said member through said bracket, and means on said clamp for enabling said bracket to be tilted at an angle with the horizontal while retaining said arm in position so that the direction of movement thereof is in a vertical plane, said clamp having spaced apart threaded openings therein, a threaded opening in said bight portion adapted to be selectively aligned with said openings, said last named means including a screw carried by said clamp in one of the openings therein so as to be tightened into the opening in said bight portion.

5. A device for supporting articles from either horizontal or vertical supports comprising a pivotally mounted arm including a jaw adapted to grip a support, a member pivotally connected to said arm, a clamp through which said member is slidable, and a substantially U-shaped bracket pivotally connected to said clamp so as to be movable in a plane at rightangles to the direction of movement of said member through said bracket, said bracket and said jaw being adapted to be disposed at opposite sides of a vertical or horizontal recess, said arm having an article receiving slot therein at the end opposite said jaw.

In testimony whereof I affix my signature.

FRED G. FAZEKAS.