May 16, 1950 N. C. HEINRICH 2,508,258

PAIL HANGER

Filed June 16, 1947

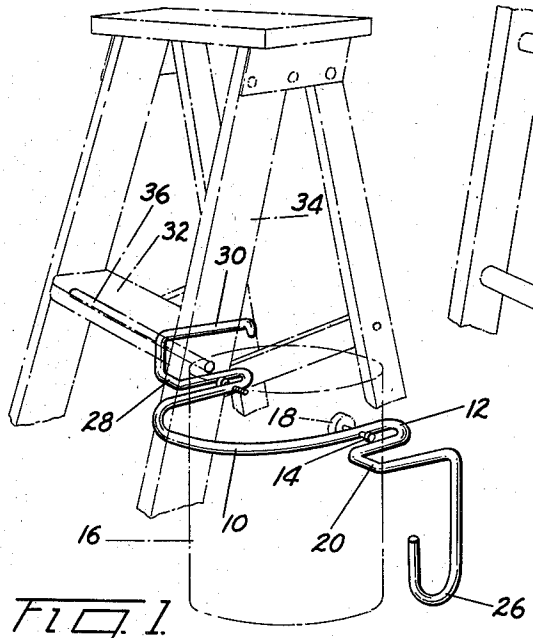


FIG. 1.

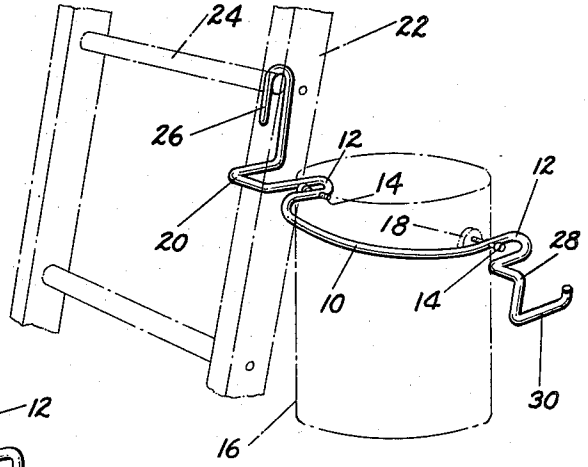


FIG. 2.

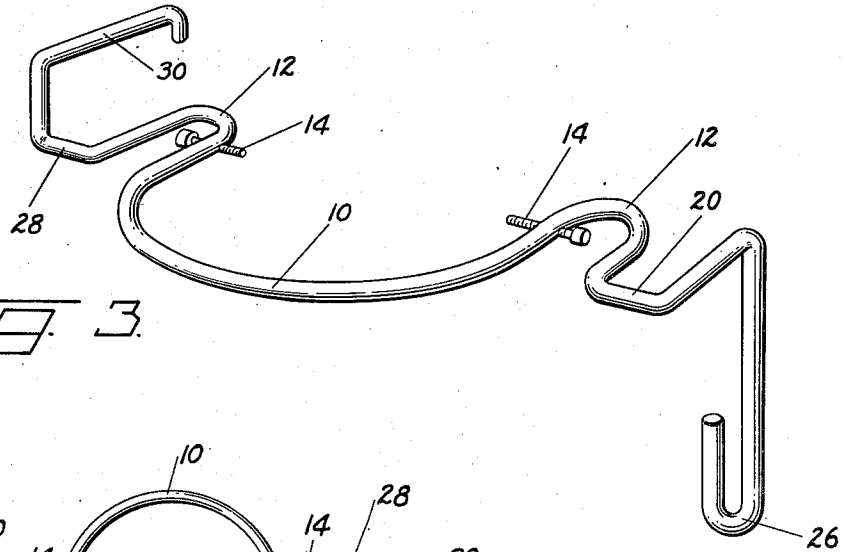


FIG. 3.

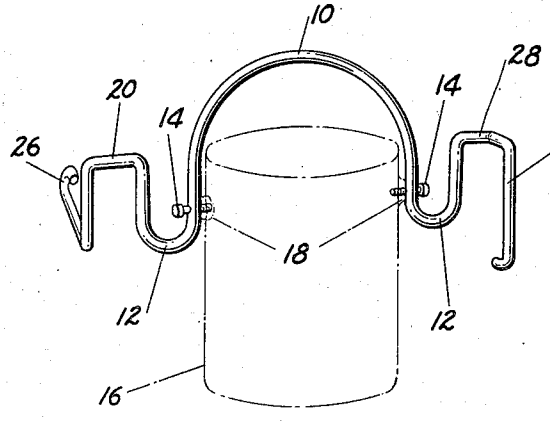


FIG. 4.

INVENTOR.
NICHOLAS C. HEINRICH
BY
Burton & Parker
ATTORNEYS.

Patented May 16, 1950 2,508,258

UNITED STATES PATENT OFFICE

2,508,258

PAIL HANGER

Nicholas C. Heinrich, Wyandotte, Mich.

Application June 16, 1947, Serial No. 754,835

5 Claims. (Cl. 248—210)

1

This invention relates to an improved pail supporting bracket.

An object is to provide a pail supporting bracket which is so constructed as to have a pail hingedly connected therewith and which bracket is adapted to be engaged with the rung and side rail of a ladder to swingably support the pail offset the side rail of the ladder at the height of any rung of the ladder.

Another object is to provide a pail supporting bracket of the character described particularly designed to be employed to support a paint pail but obviously adaptable to support any pail such as one containing cleaning liquid or the like.

Another object is to provide a pail supporting bracket of the character described which is adapted to swingably support a pail offset a side rail of a ladder and is adapted to be readily detachably connected with any rung of a conventional ladder and with the side rail of any conventional ladder to support the pail.

A further object is to provide a pail supporting bracket of the character described adapted to be detachably coupled with the round rung of a conventional extension ladder or with the flat step of a step ladder and with the conventional side rails of either type of ladder to support the pail offset the side rail of the ladder.

A meritorious feature is that this improved pail supporting bracket is of simple inexpensive construction and may be secured to any conventional pail by removing the bale with which the pail is provided and securing the bracket member to the ears with which the ends of the pail are ordinarily connected. When so secured the bracket member serves as a bale to swingably support the pail for carrying. The bracket member also exhibits hook-like extensions at opposite ends of its bale-like portion which hook-like extensions are adapted to be detachably engaged with a ladder as hereinabove described.

An important feature of this invention is that it is adaptable for use either with the conventional step ladder or with the conventional extension ladder. One end portion is provided with a saddle adapted to embrace the upright rail of a step ladder and a relatively wide and shallow hook adapted to engage over a step of the step ladder. The other end portion is provided with a saddle adapted to embrace the upright rail of a conventional extension ladder and a relatively deep and narrow hook adapted to engage over a rung of such a ladder.

Other objects, advantages and meritorious features will more fully appear from the following

2

description, claims and accompanying drawing wherein:

Fig. 1 is a fragmentary perspective of a conventional step ladder showing my improved bracket secured thereto and supporting the pail offset the ladder.

Fig. 2 is a fragmentary perspective of an extension type of ladder showing my improved bracket detachably secured to one of the rungs of the ladder and swingably supporting a pail offset the side rail of the ladder.

Fig. 3 is a perspective of my improved bracket structure.

Fig. 4 is an elevation of my improved bracket structure showing its attachment to a pail to serve as a supporting bale therefor.

This improved pail supporting bracket is illustrated in the drawing as formed of a single strip or rod of metal or the like bent to exhibit a U-shaped bale-like portion 10 having its opposite ends reversely curved as at 12. A pair of manually adjustable screws 14 extend through opposite sides of the U-shaped portion 10 as illustrated. The heads of the screws are disposed within the loops formed by the reversed bends 12 so that the screws may be advanced inwardly or withdrawn rearwardly at an appreciable distance.

This U-shaped portion is adapted to receive therein the top of a conventional paint pail or the like as shown in dotted outline at 16. When the bale with which such a pail is conventionally provided has been removed, the screws 14 of the bracket are adapted to be received within the bale receiving openings in the ears 18 of the pail. These openings in the ears ordinarily receive the ends of the bale. The screws are adapted to be threaded thereinto as shown particularly in Figs. 1 and 4.

When a pail is secured within the U-shaped portion 10 of the bracket as shown in Fig. 4, this U-shaped portion 10 of the bracket will serve as a bale to swingably support the pail so that it may be carried from place to place. The bracket also supports the pail so it will swing to occupy an upright position when the bracket is secured as hereinafter described to a ladder as illustrated in Figs. 1 and 2.

The opposite ends of the pail supporting portion of the bracket are bent as shown in the figures of the drawing. One end portion is bent to provide a saddle-like part 20 which is adapted to be received over the side rail 22 of a conventional extension ladder as shown in Fig. 2. Such a ladder is commonly provided with round rungs

24. The end of the saddle portion 20 is extended and bent to form a hook 26 which hook is adapted to engage over a rung 24 of the ladder when the saddle is mounted upon the side rail 22 all as shown in Fig. 2.

This mounting of the bracket upon a ladder is readily accomplished and when the bracket is so mounted the U-shaped portion 10 within which the pail is hinged projects laterally outwards from the side rail of the ladder and the pail is supported conveniently disposed for access. The attachment of the bracket to the ladder is readily releasable so that the pail may be moved from one rung to another as desired. The mounting is such that the pail is securely supported.

The opposite end of the U-shaped pail supporting portion 10 is extended and bent to form a U-shaped saddle portion 28 and a hook portion 30. This hook portion 30 is adapted to engage over the flat step 32 of a step ladder and the saddle portion 28 is adapted to embrace the upright rail 34 of a step ladder. It is conventional practice in step ladder construction to provide underneath each step a tie rod 36 which has a head that projects slightly beyond the upright rail 34. The saddle portion 28 engages underneath the head of the tie rod and the connection formed by the hook 30 with the flat step and by the saddle 28 with the upright rail and underneath the head of the tie rod is such that the bracket will not tilt but maintain such horizontal projected position as shown in Figure 1 and securely supports the pail as illustrated.

The two U-shaped saddle portions 20 and 28 are disposed within the plane of the pail supporting portion 10 and open in the same direction but are spaced therefrom by the bends 12 as shown in the drawing. The space within the bends 12 permit adjustment of the screws in and out. The hook portions 26 and 30 are disposed perpendicularly to the plane of the pail supporting portion 10 and the saddle portions 20 and 28 but project in opposite directions therefrom.

The hook portion 26 is relatively narrow and deep to engage over the rung of an extension ladder as shown in Fig. 2. The hook portion 30 is relatively wide and shallow to engage over the step of a step ladder as shown in Fig. 1.

It will be seen therefore that this particular bracket structure is adaptable for use either with a step ladder or an extension ladder and is readily attachable to either type of ladder or detachable therefrom. It serves the purpose of a bale for transporting the pail which is mounted therein. It serves to securely support a pail offset outwardly the rail of a ladder.

What I claim is:

1. A pail supporting bracket comprising a U-shaped intermediate portion adapted to engage opposite sides of a pail disposed therein, each end of the U being extended and bent upon itself forming a saddle portion disposed within the plane of the U and adjacent thereto adapted to embrace the upright rail of a ladder and a hook portion adapted to engage a step of the ladder, one saddle portion having its two legs disposed in the same plane and in the plane of the U, and having the outer end of its outer leg bent away from the plane of the U and provided with a hook end, and the other saddle portion having its inner leg disposed in the plane of the U and its outer leg offset the inner leg perpendicularly to the plane of the U, the outer end of said outer leg bent downwardly toward the plane of the U.

2. A pail supporting bracket comprising a U-shaped intermediate portion provided with opposed inwardly projecting adjustable means adapted to pivotally engage opposite sides of a pail disposed within the U, each end of the U-shaped pail supporting portion being extended and bent upon itself forming a U-shaped saddle portion disposed within the plane of the pail supporting portion and adjacent thereto and adapted to embrace the upright rail of a ladder with the pail supporting portion projecting outwardly horizontally away from the ladder, each saddle portion terminating in a hook adapted to engage over a rung of the ladder.

3. A pail supporting bracket comprising a U-shaped intermediate portion provided with opposed pins projecting inwardly from opposite sides of the U and being adjustable to engage opposite sides of a pail disposed within the U to swingably support the pail therein, each end of the U-shaped pail supporting portion being extended and bent upon itself forming a U-shaped saddle portion disposed within the plane of the pail supporting portion and adjacent thereto and being open on the same side and adapted to embrace the upright rail of a ladder and terminating in a hook portion disposed normal to the plane of the saddle portion and adapted to engage over a rung of the ladder.

4. A pail supporting bracket comprising a U-shaped intermediate portion provided with opposed means projecting inwardly from opposite sides to engage opposite sides of a pail disposed within the U to swingably support the pail therein, each end of the U-shaped pail supporting portion being extended and bent upon itself forming a U-shaped saddle portion disposed within the plane of and adjacent to but spaced slightly from the pail supporting portion, the ends of the two saddle portions being extended and bent in opposite directions perpendicularly with respect to the plane of the pail supporting portions forming ladder rung-engaging hooks, one hook being relatively narrow and deep and the other hook being relatively shallow and wide.

5. A pail supporting bracket comprising a U-shaped bale-like portion having a pair of opposed screws threaded through opposite sides of the bale to engage opposite sides of a pail disposed therein to swingably support the pail, opposite ends of the bale portion being reversely bent and shaped to form a U-shaped saddle portion spaced slightly from the bale and disposed within the plane thereof and adjacent thereto and being open in the same direction as the bale, each saddle portion being adapted to embrace the upright rail of a ladder, one saddle portion having its two legs disposed in substantially the same plane and in the plane of the bale and the other saddle portion having its two legs disposed one in the same plane as the bale and the other offset perpendicularly therefrom, the outer leg of each saddle having its outer end bent to form a hook, said hook ends projecting in opposite directions.

NICHOLAS C. HEINRICH.

REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

Number	Name	Date
1,833,690	Penners	Nov. 24, 1931
1,865,283	Sohnle	June 28, 1932
2,318,930	Dietrich	May 11, 1943