

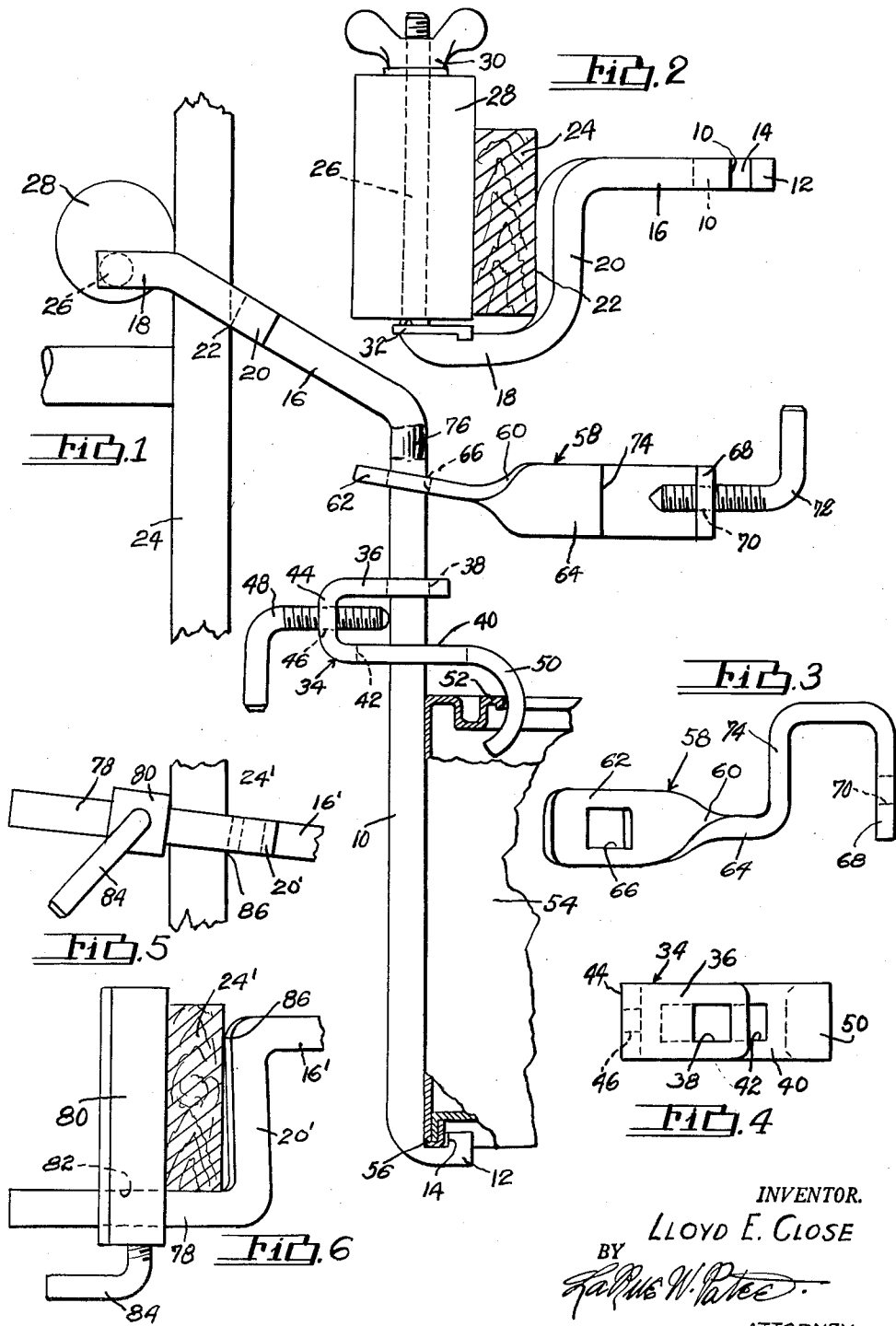
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RECEPTACLE HOLDER

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RECEPTACLE HOLDER

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This invention relates to a receptacle holder and more particularly to a support for suspending a paint pail, or the like, to the outside edge of a ladder rail.

It is common practice to use hooks or other suspension devices which attach to the rung of the ladder and suspend the pail from its bail. These devices are unsatisfactory because the user is required to reach through the rungs of the ladder to dip the paint brush in the pail, and many paint pails are not provided with a bail.

It is an object of the present invention to provide an improved suspension device which may be attached to a ladder rail, supporting the receptacle at the outside of the ladder rail, either the left or right side, where it is more convenient to the user.

Another object of the invention is to provide an adjustable eccentrically mounted roller at one side of the ladder rail cooperating with a sharp corner edge on the body of the holder, forming a locking means to the rail which may be adjusted for various thickness of ladder rails.

Another important object of the invention is to provide a bracket for suspending a paint brush or other tool over the receptacle or at one side thereof and to prevent rotation thereof about the axis of the support when in either position.

Other objects and advantages of the invention will more fully appear from the following description taken in connection with the accompanying drawings in which:

FIG. 1 is a side elevational view of my improved holder, parts being broken away and in cross section;

FIG. 2 is a top plan view of the roller and body portion of the holder applied to a ladder rail, shown in cross section, the tool holder bracket and receptacle securing clamp having been removed;

FIG. 3 is a top plan view of the tool holder bracket without its locking screw;

FIG. 4 is a top plan view of the receptacle securing clamp without its locking screw;

FIG. 5 is a fragmentary, side elevational view showing a modified form of locking means to the ladder side rail; and

FIG. 6 is a top plan view of FIG. 5.

Referring to the drawings I have illustrated the invention as comprising a straight rod body portion 10 preferably made from square or rectangular bar stock. The lower free end of the body is bent outwardly at a right angle to the straight portion as at 12 and a groove 14 is formed at the juncture of the bend. The upper end of the straight body portion 10 is bent in an opposite direction to an obtuse angle with respect to the straight body portion 10 to provide an upwardly and inwardly sloping portion 16, and the upper outer end is then bent to extend at a right angle to the body portion 10 as at 18. The upper end is further bent into U shaped formation having one leg 20 of the U formation provided with a sharp corner 22 for engagement with a side rail 24 of a ladder. The other leg 26 of the U formation is formed round to form a bearing for a roller 28. The roller 28 and sharp corner 22 extend transversely at opposite sides of the side rail 24.

The roller 28 is eccentrically mounted on its bearing so that by rotating the roller on its eccentric axis the distance between the corner 22 and the outer surface of the roller 28 may be varied for ladder rails of different thickness. The outer end of the leg 26 is threaded to receive a nut 30 which forces the roller against serrated

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parts 32 carried by the end of the roller 28 and the portion 18.

A U shaped clamp 34 having one leg 36 provided with a square opening 38 has sliding engagement on the body portion 10. The other leg 40 is provided with a rectangular slot 42 permitting pivotal movement of the clamp about the opening 38. The base 44 of the U is provided with a threaded opening 46 for the reception of a screw 48 for engaging the body portion 10. The outer end of the leg 40 is bent to a hook shaped portion 50 adapted for embracing the upper brim 52 of a receptacle 54. The lower brim 56 is received in the groove 14. By tightening the screw 48 the upper brim 52 can be drawn up tightly against the body portion 10.

A paint brush, or other tool, supporting bracket has a twist therein at 60 to provide a portion 62 extending substantially in a horizontal plane and a portion 64 extending in a vertical plane. The portion 62 is provided with a square opening 66 for sliding fit on the body portion 10. The portion 64 is bent to a U formation having the outer leg 68 provided with a threaded opening 70 for the reception of a screw 72. The tool is received between the leg 68 and an inner leg 74. The over-hanging weight of the outer end of the bracket 58 cause a binding of the edges of the opening 66 on the opposite surfaces of the body portion 10 whereby the bracket 58 is held against sliding movement on the body portion 10. By manually raising the outer end of the bracket 58 the bracket is free for sliding movement longitudinally on the body portion 10. A round portion 76 is formed on the upper end of the straight body portion 10 to permit rotation of the bracket 58 when it is raised to that location and when lowered again to the square portion it is prevented from turning. This is to permit the tool to be supported over the receptacle or at one side of the receptacle.

The device is very inexpensive to manufacture because it is formed by bending straight bar stock, two stampings 34 and 58, slight machining of round portions 26 and 76, machining groove 14, threading openings 46, 70 and outer end leg 26, a roller 28, serrated parts 32, screws 48 and 72 and a nut 30. The device is easily assembled because the stampings 34 and 58 may be slid over the outer end of the straight portion 12 on to the straight portion 10 and the roller placed on the leg 26.

A modified form of supporting means of the ladder rail is illustrated in FIGS. 5 and 6. The upwardly and inwardly sloping portion 16' is bent at an angle of less than a right angle to the portion 20' and then bent at right angles forming a portion 78 which extends along the edge of the ladder rail 24'. A gripping member 80 for the inner surface of the ladder rail is a rectangular rod having a rectangular hole 82 therein to fit the portion 78. A screw 84 is located in the end of the member 80 for locking it in adjusted position along the portion 78, thus varying the distance between the member 80 and the portion 20'. It is to be noted that the angle between the member 80 and the portion 20' is less than a right angle and that the corner 86 forms a pivot point for locating the rod 10 on a vertical position in supporting a paint pail regardless of the angular position of the ladder against its support. Since the members 16' and 78 slope upwardly the corner edges bite into the opposite faces of the ladder rail.

It will be understood that various changes including the size, shape and arrangement of parts may be made without departing from the spirit of the invention, and it is my intention to cover by the appended claims such changes as may be included within a reasonable interpretation of the meaning of the terms therein.

I claim:

1. A receptacle holder for use on ladder rails comprising a straight longitudinally extending rod portion having its lower end bent outwardly at a right angle thereto and provided with a groove in the upper surface of the right angle bent portion, a slidable clamp provided with a hook adjustably secured to said rod for clamping said receptacle to said rod, the upper end of said rod being bent into U shape formation extending in a plane which lies in a plane at an obtuse angle to said rod portion and in an opposite direction to said first named bent portion, and an eccentrically mounted roller on one of the legs of the U shape portion.

2. A receptacle holder for use on ladder rails comprising a straight longitudinally extending square rod portion having its lower end bent outwardly at right angles thereto and provided with a groove in the upper surface of the right angle bent portion, a sliding clamp provided with a hook adjustably secured to said rod for clamping said receptacle to said rod, the upper end of said rod being bent into U shape formation and extending at an angle in an opposite direction to said first named bent portion which lies in a plane at an obtuse angle to said longitudinally extending portion for embracing three sides of a ladder rail whereby a sharp corner of said rod engages said rail, an eccentrically mounted roller on one of the legs to said U shaped bent portion, the upper end of said straight portion of said rod having a circular portion, a bracket having a square hole therein slidably mounted on

said rod and having a U shaped portion at its outer end, and a screw threaded member in one leg of said U shaped portion.

3. A receptacle holder for use on a ladder rail, comprising a straight longitudinally extending square rod portion having its lower end bent outwardly at right angles thereto and provided with a groove in the upper surface of the right angle bent portion, a sliding clamp provided with a hook adjustably positioned along said straight portion, the upper end of said rod being bent forming a second portion extending at an obtuse angle relative to said straight rod portion and in an opposite direction to said first named bent portion, a third bent portion extending at right angles to said second named bent portion and laterally offset therefrom, a fourth bent portion connected to said third portion extending in parallel relation to said third named portion and spaced therefrom, and adjustable means carried by said fourth portion for varying the space between said adjustable means and said third named bent portion.

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