Feb. 20, 1934. E. COHEN 1,947,697

CONNECTER FOR IMPLEMENT HANDLES

Filed April 13, 1933

Fig. 1.

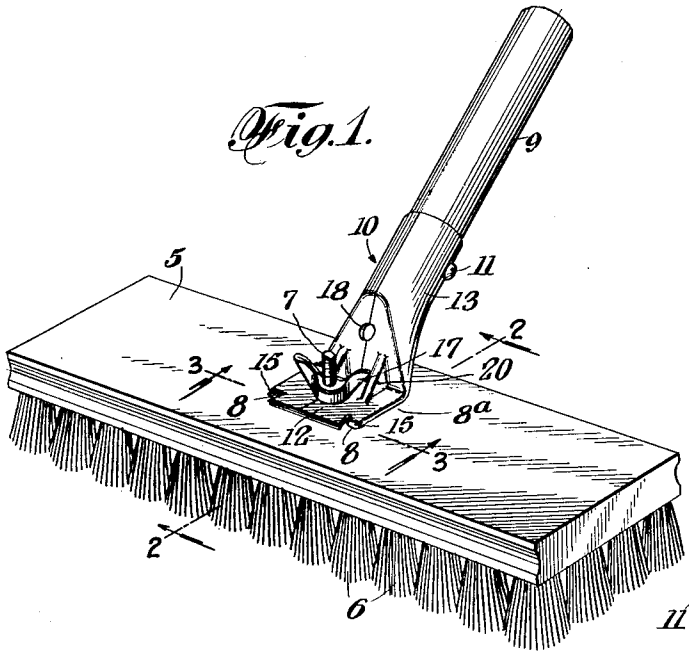


Fig. 3.

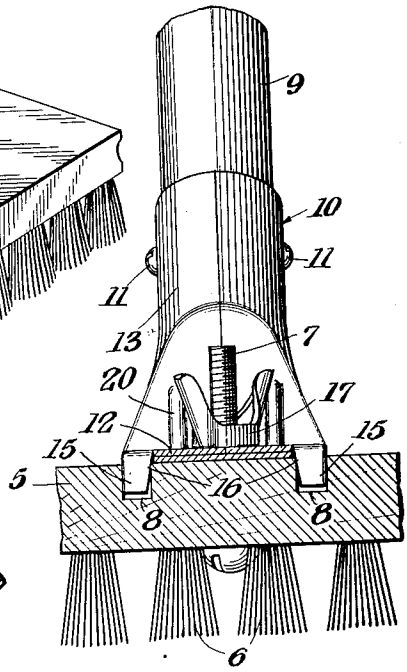


Fig. 2.

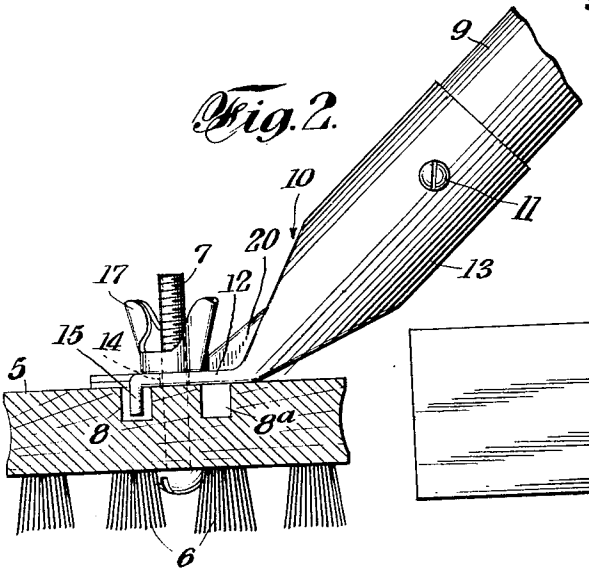
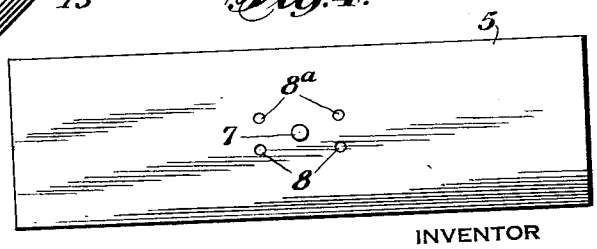


Fig. 4.



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CONNECTER FOR IMPLEMENT HANDLES

Elias Cohen, New York, N. Y.

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3 Claims. (Cl. 306—1)

This invention relates to brushes or the like and more particularly to handle connecters for floor scrubbing and cleaning devices and other items where an inexpensive practical connecter for receiving a readily removable and reversible handle is desired.

When devices of this character are used, it is found that the greatest wear on the bristles of the brush is on the side nearest the operator and it is therefore desirable to reverse the brush, front to back, to equalize the wear. An important object of the invention therefore is to provide a handle connecter having lugs adapted to selectively engage pairs of symmetrically arranged sockets in the brush or other implement backing so this may be accomplished.

At times, it may be desirable to use the brush without a handle or to substitute a new brush or other cleaning implement as a dust mop on the handle, and hence an important feature of the invention is to provide easily detachable means between the handle and the brush or other implement.

Another important object is to provide a cleaning appliance of this character having a cleaning member provided on its back with an upstanding screw stud and selective sockets adapted to receive a metallic fitting to which is attached an operating handle.

Another object is to provide a metallic handle-fitting member provided with one or more lugs adapted to selectively fit socket portions of a cleaning unit back, the lugs being downturned and tapered to easily enter the sockets with their upper portions being wider than the sockets so that when assembled with the cleaning unit there is effected an intimate, tight connection between the handle connecter and the cleaning unit.

Another object is to provide a metallic handle connecter portion for connection with the back of a cleaning unit having an upstanding screw stud, and initially formed of a tubular member and then flattened at one end and bent at an angle to the remaining tubular portion, the tubular portion being provided with a hole receptive of the screw stud and with lugs adapted to selectively enter sockets in the cleaning unit.

A still further object is to provide a handle connecter for a cleaning implement, which will not weaken the block of the implement, one which will evenly distribute the weight over the block, and whose attaching means does not require the removal of any of the brush bristles.

The and many other advantageous objects are attained by the novel construction and arrangements of parts hereinafter fully set forth and illustrated in the accompanying drawing, indicative of a preferred embodiment of the invention, and in which:

Fig. 1 is a perspective view of the invention.

Fig. 2 is a cross sectional view taken along the line 2—2 of Fig. 1, parts being broken away.

Fig. 3 is a partial longitudinal view as taken along line 3—3 of Fig. 1.

Fig. 4 is a top plan view of the cleaning unit.

Referring to the drawing in greater detail, the cleaning unit is comprised of a wooden or similar backing portion 5 to which is affixed in any well known manner, bristles 6. While in this instance the cleaning unit is shown as an ordinary type of scrubbing brush, the invention may be adapted for use with a dust mop, polishing device or the like.

Centrally located and projecting upwardly through the backing portion there is preferably provided a screw stud 7 and in proper symmetrical relation to the stud, sockets 8 and 8a in the upper face of the backing member may be provided.

The handle 9 is a round sectional stick having a length of several feet and is preferably angularly disposed in relation to the brush as shown.

The lower portion of the operating handle is fitted with metallic fitting generally designated as 10 and is secured thereto as by means of the screws 11.

The fitting 10 is initially formed as a tubular member and one end is then swaged in dies to assume the flattened condition as illustrated at 12, the remaining tubular portion 13 being then bent at an angle thereto and adapted to socket the handle 9.

Stiffening ribs 20 may be provided and these may be formed from the metal of the fitting 10.

The flattened portion is provided with a hole 14 adapted to be entered by the screw stud 7 and one or more downturned lugs 15 may be struck therefrom to selectively engage the sockets 8 or 8a. The sockets may be previously prepared or they may be produced by forcing the lugs 15 into the wood.

The lugs 15 are preferably tapered as shown (Fig. 3) for easy entry into the sockets or they may be sharpened to produce their own sockets and their upper portions are of sufficient width as shown at 16 to more than fill the sockets and when assembled with them to bite into the con-

tour of the sockets to insure a tight, intimate connection therebetween.

A thumb nut 17 or the like is provided to engage over the screw stud 7 to clamp the handle and fitting to the cleaning unit.

It is now apparent that the handle may be assembled with the lugs 15 in either the sockets 8 or 8a and that upon separation the brush may be set aside to dry and the handle may be hung upon a hook by means of the hole 18 in the fitting 10. While two lugs 15 are shown it will be obvious that any plurality of lugs may be used to prevent rotation of the connecter on its stud 7.

From the foregoing it will be seen that a simple device for the purpose has been disclosed in the preferred form of its embodiment, but it is not desired to restrict the details to the exact construction shown, it being obvious that changes, not involving the exercise of invention, may be made without conflicting with the scope of the appended claims.

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

1. In a cleaning device having a backing portion provided with an upstanding screw stud and sockets enterable from the top, an operating handle provided with a metallic fitting adapted to be removably and reversibly secured to the backing portion, said fitting being provided with downturned wedge shaped lug portions selectively engageable with some of the sockets, the upper portion of each lug being greater than the socket adapted to receive it and means including the mentioned screw stud to clamp the fitting to the backing portion and to wedge the lugs into their respective sockets.

2. A fitting for an operating handle adapted to be removably attached to a cleaning unit having a backing portion provided with sockets, comprising a metallic member having a tubular portion forming a socket for the handle and a flattened, angularly disposed portion adapted to contact the top of the backing portion, said flattened portion being provided with integral downturned wedge shaped lugs selectively engageable with some of the backing portion sockets for wedging engagement therein, said lugs being wider at the top than the sockets into which they enter.

3. A fitting for an operating handle adapted to be removably attached to a cleaning unit having a backing portion provided with sockets, comprising a metallic member having a tubular portion forming a socket for the handle and a flattened angularly disposed portion adapted to contact the top of the backing portion, integral upstanding ribs connecting the tubular portion and the flattened portion, said flattened portion being provided at its free corners with integral downturned tapered lugs selectively engageable with some of the backing portion sockets for wedging engagement therein, said lugs being wider at the top than the sockets into which they enter.

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