April 5, 1932. J. C. HUGULEY 1,852,349

MOP AND BRUSH HOLDING MEANS

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FIG. 1

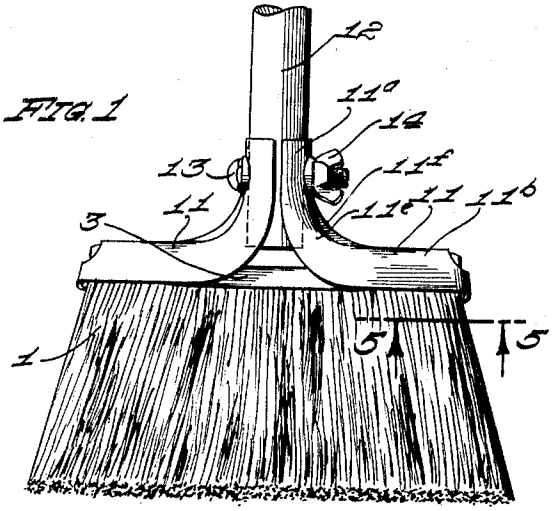

FIG. 2

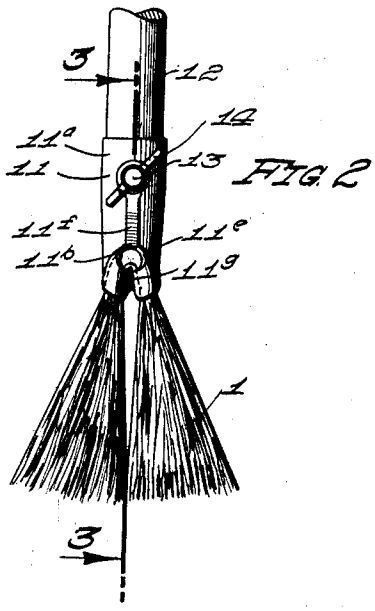

FIG. 3

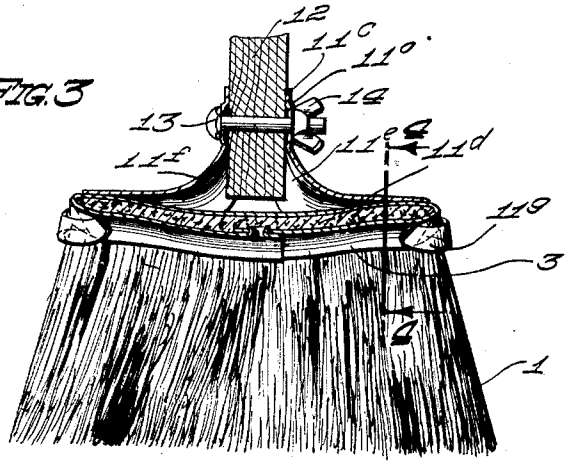

FIG. 4

FIG. 5

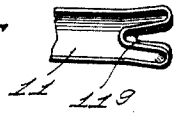

FIG. 6.

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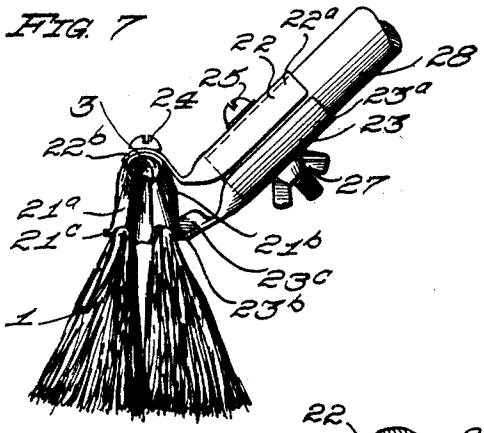
FIG. 7



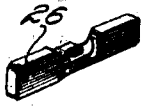


FIG. 10

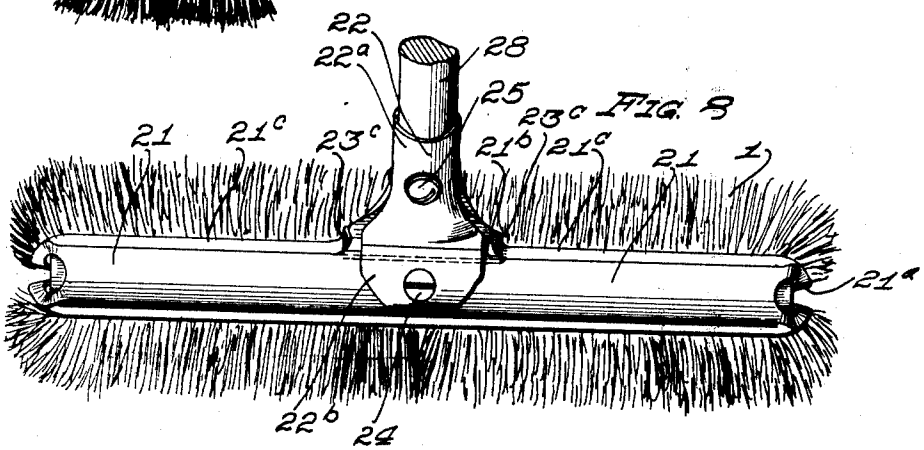


FIG. 8

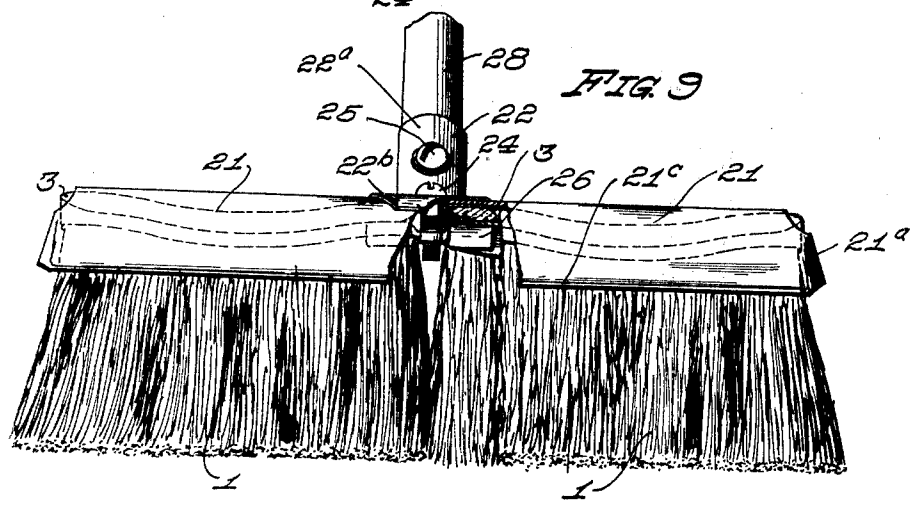


FIG. 9

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UNITED STATES PATENT OFFICE

JOB C. HUGULEY, OF ARLINGTON, CALIFORNIA

MOP AND BRUSH HOLDING MEANS

Application filed October 5, 1927. Serial No. 224,059.

My invention relates to means for holding mops and brushes while using the same.

The objects of my invention are: First, to provide a novel and rigid holder for mops and brushes; second, to provide a holder of this class which conceals substantially the whole of the mop or brush head and to provide a holder which is neat and simple in appearance; third, to provide a holding means of this class from which the mop or brush head may be easily and quickly removed and another easily and quickly substituted in a rigid manner; fourth, to provide holding means of this class which is applicable for holding mops and brushes to be used for many different purposes; fifth, to provide means of this class adapted to be clamped around and engage the ends of long, rigid mop or brush heads for rigidly holding and easily replacing the same; and, sixth, to provide holding means of this class which are particularly simple and economical of construction, durable and which will not readily deteriorate or get out of order.

With these and other objects in view, as will appear hereinafter, my invention consists of certain novel features of construction, combination and arrangement of parts and portions, as will be hereinafter described in detail and particularly set forth in the appended claims, reference being had to the accompanying drawings and to the characters of reference thereon which form a part of this application in which:

Figure 1 is a side elevational view of my holding means in one form of construction, showing the handle connected thereto fragmentarily and showing the same holding a brush; Fig. 2 is an edge elevational view thereof; Fig. 3 is a sectional view thereof taken through 3—3 of Fig. 2; Fig. 4 is fragmentary sectional view thereof taken through 4—4 of Fig. 3; Fig. 5 is an inner or under side view of one end of the holding means with the view taken at 5—5 of Fig. 1; Fig. 6 is a perspective view of a similar holding means holding or secured to a mop; Fig. 7 is an edge elevational view of my holding means in a slightly modified form of construction for supporting two short brushes; Fig. 8 is a top view thereof; Fig. 9 is a front elevational view thereof, showing certain parts and portions of the holding means and of the brushes broken away and in section to facilitate the illustration; and, Fig. 10 is a perspective view of the means for securing the inner ends of the two brushes in the modified form of holding means.

Like characters of reference refer to similar parts and portions throughout the several views of the drawings.

The brushes and mops, illustrated in the drawings, are preferably of particular construction as more specifically set forth in my previous application for Letters Patent for mop heads, filed in the United States Patent Office December 7th, 1926, Serial No. 153,053. For the purpose of this application, however, it will be noted that the heads 3 of the brushes 1 and the mop 2 are of rigid channel shaped construction with the channel directed downwardly, or the same may be of other rigid construction transversely with openings in its ends.

The holding means, illustrated in Figs. 1 to 6 inclusive, consists of a pair of identical or similar holding members 11, a handle 12, a bolt 13 and a nut 14. The holding members 11 are preferably and more economically made from sheet metal and are generally of right angular shape, two of the legs, designated 11*a*, being positioned with their normally outer sides adjacent each other, and with their other legs, designated 11*b*, directed outwardly or away from each other and positioned in substantial alignment with each other. The normally outer sides of the angles, or the sides of the legs 11*a* adjacent each other and the downwardly directed sides of the legs 11*b*, are provided with channels 11*c* and 11*d*, the channels of both legs of each holder member being substantially continuous. The channels 11*c* of the upwardly directed legs 11*a* form with each other a cylindrical socket for receiving the one end of the handle member 12, said handle member being secured to said holder members by the bolt 13 extending through both of said holder members and by a wing nut 14 secured to the end of the bolt 13.

The legs 11*a* and 11*b* of the holder members are preferably rigidly connected by a gradually curved portion or corner 11*e* of the same U-shaped cross section as the leg, but the curved portion is preferably reinforced at its outer side by means of an outwardly pressed rib 11*f*.

Within the channels 11*d* of the laterally or outwardly extended legs 11*b*, which channels are positioned substantially in alignment with each other, is positioned the rigid head 3 of the brush or mop. In order to rigidly retain the brush or mop head in position in said channel of the member 11, I have provided lugs 11*g* at the ends of the legs 11*b*, which lugs extend inwardly into the channel 11*d*, into the ends of the head members 3 of the brush or mop, and hold said head member rigidly against the lateral and inner side walls of the member 11 forming the channel 11*d*. These lugs 11*g* are formed by extending the side walls of the legs 11*b*, which in the original sheet of metal are connected, and then bending such extended portions inwardly as a loop in gradual curves, as shown in Figs. 1, 2, 3 and 5. The sides of these lugs 11*g* engage the lateral sides of the channel of the head 3 and the upper side of the inner end of the lugs engage the inner side or bottom of the channel of the head. The bolt 13 and the wing nut 14 not only secure the holder members 11 to the handle member 12, but also draw the lugs 11*g* into the ends of the head member of the brush and mop for securely clamping the brush or mop in the holding means.

The holding means, illustrated in Figs. 7 to 10, inclusive, is primarily adapted for holding a plurality of brushes so that a wide floor or similar brush may be formed. However, the same may be adapted for holding a plurality of mop sections so that a wide mop may be formed which may be used as an oil or dust mop. The holding means in this modified form of construction consists of a long holder member 21, handle connecting members 22 and 23, screws 24 and 25, the brush retaining member 26, and the wing nut 27. The long holder member 21 is also preferably made of sheet metal of U-shaped cross section forming a downwardly directed channel in which the head portions of a plurality of mops or brushes may be positioned, as shown best in Fig. 9. The ends of this long holder member 21 are provided with inwardly extending lugs 21*a* formed integrally from and with the sheet metal forming the member 21, and shaped similar to the lugs 11*g* described above. The inner ends of the mop or brush heads are spaced a slight distance apart sufficient to permit the screw 24 to extend between the same, as shown in Fig. 9. The inner ends of the mop or brush heads are retained in position within the channel of the member 21 by a special retaining member 26 which may be made of a piece of metal bar with the portion intermediate its ends twisted at a right angle to the end portions. The end portions of this member 26 extend into the ends of the mop or brush heads while the intermediate portion is positioned between and separate the same. The screw 24 extends through the metal portion of the brush and mop head securing member 26 and the latter is held in said brush and mop head securing position by the screw 24.

The handle securing members 22 and 23 are preferably also formed of sheet metal with semi-cylindrical portions 22*a* and 23*a* at one end for receiving the one end of the handle 28, which handle is secured to the members 22 and 23 by the bolt 25 extending through both of said members and secured in position by the wing nut 27. The member 22 is provided with an upwardly extending portion 22*b* which is positioned against the upper side of the long holder member 21 and is secured in position thereto by the screw 24 above referred to. The corresponding end of the member 23 is provided with a securing portion 23*b* which extends below the one edge of the member 21 and below the flange 21*c* extending outwardly from the lower edge of said member, and thence upwardly into the inside of the channel of the member 21 as shown best by broken lines in Fig. 8. The portion of the member 21 into which said end 23*b* of the member 23 extends is preferably pressed outwardly or backwardly, as indicated by 21*b* in Figs. 7 and 8 forming a recess for receiving the end of the portion 23*b* to prevent movement thereof longitudinally relative to the member 21. The portion between the semi-cylindrical portion 23*a* and the securing portion 23*b* is provided with lugs 23*c* at the opposite lateral sides of the member 23, which lugs are positioned over the portion 23*b*, at the opposite ends thereof, and extend over the flange 21*c* of the holder member 21, as shown in Figs. 7 and 8.

In order to remove the mops or brushes secured to the holding means shown in Figs. 7 to 9, the screw 24 is unscrewed until the securing member 26 may be removed when both mop or brush sections may be tilted about the lugs 21*a* and thus removed.

Though I have shown and described a particular construction, combination and arrangement of parts and portions, and a certain modification thereof, I do not wish to be limited to this particular construction, combination and arrangement, nor to the modification, but desire to include in the scope of my invention the construction, combination and arrangement substantially as set forth in the appended claims.

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

1. In a holder of the class described, a pair

of holder members of substantially right-angular shape, one leg of each of said members being provided with means for receiving a handle, and means for securing said holder members together and for securing said members to the handle, the other legs of said holder members being provided with outwardly and downwardly directed cleaning implement receiving channels and at their ends with means directed into the channel from the ends of the channel for gripping said cleaning implements.

2. In a holder of the class described, a pair of holder members of substantially right-angular shape, one leg of each of said members being provided with means for receiving a handle, and means for securing said holder members together and for securing said members to the handle, the other legs of said holder members being provided with outwardly and downwardly directed cleaning implement receiving channels, and lugs at their ends for gripping said cleaning implements, said lugs extending inwardly from the end of the said other legs into said channel and spaced from the inner side walls thereof.

3. In a holder of the class described, a pair of holder members of substantially right-angular shape and of substantially U-shaped cross section forming channels therein at the normally outer sides of the angles, the channels of one leg of each holder member being positioned adjacent each other forming a socket for a handle, the channels of the other legs being in substantial alignment forming a recess for receiving a cleaning implement, the outer ends of the latter legs being provided with inwardly bent portions at the ends of the channels therein forming lugs for gripping said cleaning implements at and from the ends thereof, said lugs being spaced from the inner side walls of the channels in the latter legs.

4. In a holder of the class described, a pair of holder members of substantially right-angular shape and of substantially U-shaped cross section forming channels therein at the normally outer sides of the angles, the channels of one leg of each holder member being positioned adjacent each other forming a socket for a handle, the channels of the other legs being in substantial alignment forming a recess for receiving a cleaning implement, the outer ends of the latter legs having lug portions extending inwardly from the ends of the legs into the channels therein for retaining said cleaning implements, and means extending through the first mentioned legs for securing said holder members together and for securing said holder members to a handle, and also for drawing the means at the ends of the last mentioned legs into the ends of said mops or brushes.

5. In a device of the class described, a rigid head member for cleaning implements, said head member having openings in its ends, a pair of separable holder members adapted to receive and fit over the outer side of said head member and removably into the openings in the ends thereof, a handle member, and means for drawing said holder members together and for securing the same to said handle member.

6. A structure of the character referred to including a handle, a pair of holders formed of flat sheet metal bent to angular form longitudinally and to arched form transversely and having their outer ends indented inwardly under the arched form to provide opposed inwardly projecting portions under the opposite ends of the arched forms, and a folded member having its opposite ends hooked over said inwardly projecting portions under the arched forms of said holders, said folded member having lengths of flexible material clamped therein for the purpose indicated.

7. A mop structure including in combination, a handle, a pair of holders formed into angles longitudinally and in arched form transversely with inturned ends projecting inwardly under the arched forms, means detachably securing said holders to the opposite sides of a handle, a channeled member holding a quantity of cordage for a mop body and adapted to hook at its opposite ends over the inwardly projecting ends of said holders, under the arched forms thereof.

8. In mop construction, a handle, and a pair of holders formed of flat sheet metal bent to angle form longitudinally and to arched form in cross section, said holders having holes through one end of each with the portions beyond said holes indented and folded under the arched forms of said holders and projecting inwardly toward each other at opposite ends of said holders, and means for securing said holders to the opposite sides of said handle, said inwardly projecting ends constituting means for holding a mop head therebetween under the arched forms of said holders.

9. In mop structures, in combination, a handle, a pair of holders formed of a strip of sheet metal bent to angle form longitudinally and to arched form in cross section, a beadlike portion formed in the angle, the outer end of each being provided with a hole and the extreme end being folded inwardly upon itself under the arched form, and adapted to receive and hold the opposite ends of a head for mops, whereby the latter can be quickly detached by loosening said pair of holders.

10. In a device of the character referred to, a mop head formed of a flat open band member, cordage laid through said open band and crosswise therein, means for closing the open side of said band with said cordage there-

through, said band being pressed flatwise and folded together transversely to bring the opposite sides of said band and the opposite ends of said cordage together into U-form transversely, and a handle having a holder to clamp the opposite ends of said head.

11. An article of the character shown and described and including a handle, two holders formed for the opposite sides of the end of said handle, said holders being of angular form longitudinally and of arched form in cross section, two arms of the holders being secured around the end of the handle and the other two arms extending in opposite directions therefrom in alinement with each other and having their outer ends inturned to form inwardly projecting portions under said arched arms, and a head formed of top and bottom U-shaped portions compressed together with materials therebetween transversely thereof, the opposite ends of said materials coming together out of the sides of said U-shaped portions, the opposite ends of said head being clamped between said inturned end portions of said two holders, for the purpose described.

12. In a device of the class described, a handle, a rigid head member for cleaning implements, said head member having substantially aligned recesses adjacent its ends, and a pair of separable rigid holders secured to said handle and oppositely disposed relative to each other and each provided at one end with substantially aligned means removably extending into the recesses and clamping the head member between the holders.

In testimony whereof I have hereunto set my hand at Los Angles, California, this 27th day of September, 1927.

JOB C. HUGULEY.