Feb. 28, 1933. H. J. LORANG 1,899,283

MOP HEAD

Filed May 10, 1930

Fig. 1.

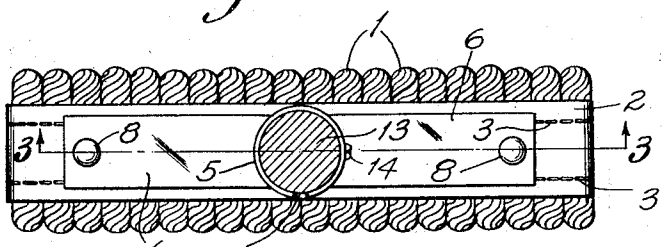


Fig. 2.

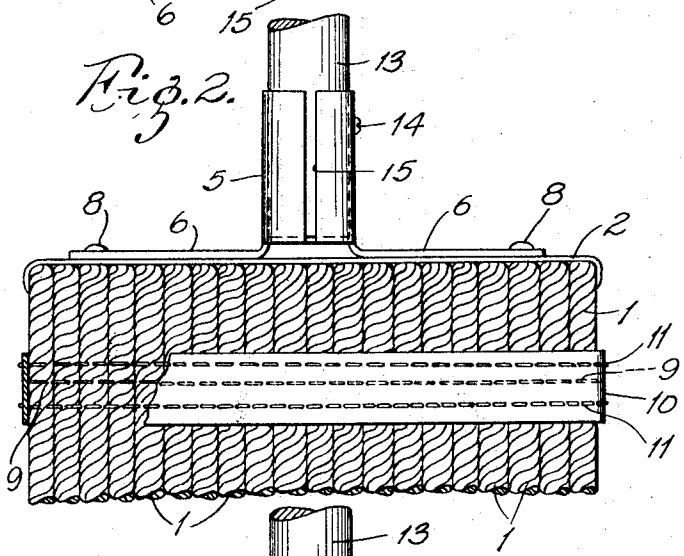


Fig. 3.

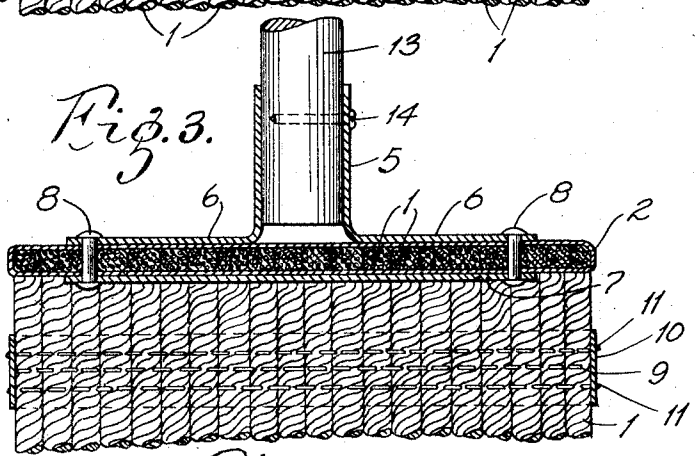


Fig. 4.

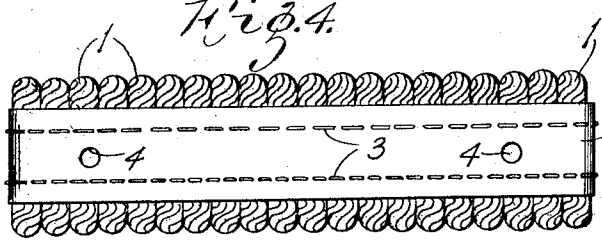
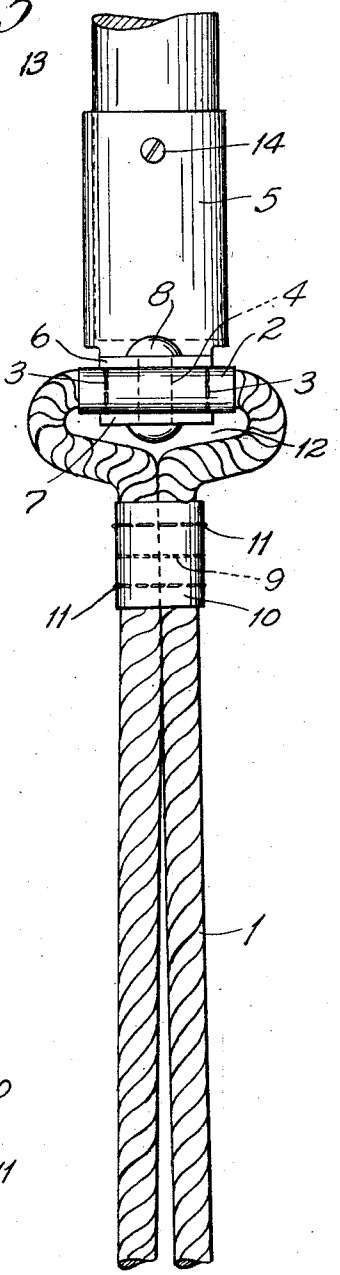


Fig. 5.



INVENTOR:
HENRY J. LORANG.

BY Bruce D. Elliott

ATTORNEY.

Patented Feb. 28, 1933 1,899,283

UNITED STATES PATENT OFFICE

HENRY J. LORANG, OF ST. LOUIS, MISSOURI

MOP HEAD

Application filed May 10, 1930. Serial No. 451,291.

The general object of this invention is to provide a mop head of simple construction, and one which may be economically manufactured and at the same time possess a higher degree of durability than mop heads as now ordinarily manufactured.

The invention is characterized by a novel combined ferrule and clamping member, constituting one element of the holder for the mop head.

The invention is further characterized by a novel means of securing the mop proper in the holder, whereby practically the entire portion of the mop below the holder may be utilized, and the surface of the metal holder be prevented from coming in contact with the floor in the mopping operation.

The invention is illustrated in the accompanying drawing in which:

Fig. 1 is a top plan view of a mop head constructed according to my invention and mounted in a holder;

Fig. 2 is a view in side elevation, a portion of a retaining band employed being broken away;

Fig. 3 is a section on the line 3—3 of Fig. 1;

Fig. 4 is a top plan view of the mop removed from the holder; and

Fig. 5 is an enlarged end view of my improved mop head mounted on a handle.

Referring now to the drawing the mop proper is constructed, as shown in all of the views, of a flat bunch of yarn strands 1 which are bound together centrally of their length by means of an encircling strip of tape 2 and two rows of stitching 3 which pass through the tape and the yarn strands. The mop as thus constructed is provided toward opposite ends with holes 4, Fig. 4, passing through the encircling band of tape.

The holder for the mop head comprises a ferrule 5, from opposite sides of which at its bottom project arms 6, shown most clearly in Figs. 2 and 3. The ferrule 5 and arms 6 are integral with each other, and are made by stamping a blank from a sheet of metal and then bending and rolling the blank to form the said ferrule and arms. The other member of the holder for the mop consists of a flat metal bar 7, Figs. 3 and 5, and this bar and the arms 6 are provided near their respective ends with apertures adapted to align with each other and with the apertures 4 in the ends of the mop. The mop is secured in the holder by having its taped portion applied to the under side of arms 6, the clamping bar 7 is then applied to the opposite or under side of the taped portion, and rivets 8 are then inserted in the aligning apertures of the mop, arms 6 and clamping bar 7, and secured by riveting, as clearly shown in Fig. 3.

A novel feature of the invention consists in the manner of securing the yarn strands 1 beneath the clamping bar 7. To this end, the two rows of strands are brought together beneath the clamping bar, as shown in Fig. 5, and are sewed together by a row of stitching 9, Fig. 3, a band of tape 10 is then passed around the strands 1, thus sewed together, and secured over the line of stitching 9 by means of lines of stitching 11 passing through the yarn strands and through the tape from side to side of the latter as clearly shown in Fig. 5.

By observing Figs. 1 and 3 it will be seen that the clamping members 6, 7, of the holder are of less length than the width of the mop, so that the ends of these clamping members will be prevented from contact with articles of furniture or with the walls of the room being mopped. By observing Fig. 5, it will be seen that the clamping bar 7 is inclosed within a space 12 formed by connecting the two end sections of the mop strands together, as previously described, so that in the mopping operation the clamping bar 7 and the lower end of rivet 8 are prevented from coming in contact with the floor and scratching or marring the same.

A further advantage of the construction just referred to consists in the fact that the mop presents a continuous mopping portion beneath the holder, so that the mop can be used, if desired, until the strands 1 have worn down practically to the confining tape 10.

As ordinarily constructed, mop heads have the yarn strands projecting from opposite sides of the holder, and there is an unoccupied space immediately under the holder. It re-

sults, therefore, that as the yarn strands 1 are shortened by use, the open space beneath the holder will frequently not be covered by the strands, and not only does this permit the holder to come in contact with the floor and mar the same, but obviously no mopping action occurs at the center of the mop.

As explained above, these disadvantages are overcome in my invention with the result that a mop head is provided having a much longer life, and one that is more effective in use throughout its life than is the case with mop heads presenting a central open space on the under side thereof.

The ferrule 5 is for receiving the lower end of a handle 13, which may be secured therein by a screw 14 as indicated in Fig. 5. The ferrule 5 is split, as indicated at 15, Fig. 2, so as to enable it to yield to receive the end of a handle inserted under pressure, whereby the handle will be firmly and securely clamped by the ferrule.

A mop head constructed according to my invention may be manufactured at a relatively small cost as compared with mop heads of a similar character as now manufactured; and it is contemplated that when the mop proper has worn away to the extent that it can no longer be used to advantage, the mop head will be removed from the handle and thrown away and a new mop head be substituted therefor.

I claim:

A mop head comprising a mop and a holder therefor formed as a unitary structure, said holder having clamping members applied to opposite sides of the mop, rivets extending through the mop and securing said clamping members permanently together, the clamping member on the upper side of the mop consisting of a split ferrule having integral arms projecting at right angles from opposite sides of the lower end thereof.

In testimony whereof, I have hereunto set my hand.

HENRY J. LORANG.