March 17, 1925. 1,530,045

J. GUY

MOP

Filed Dec. 30, 1922

Fig. 1.

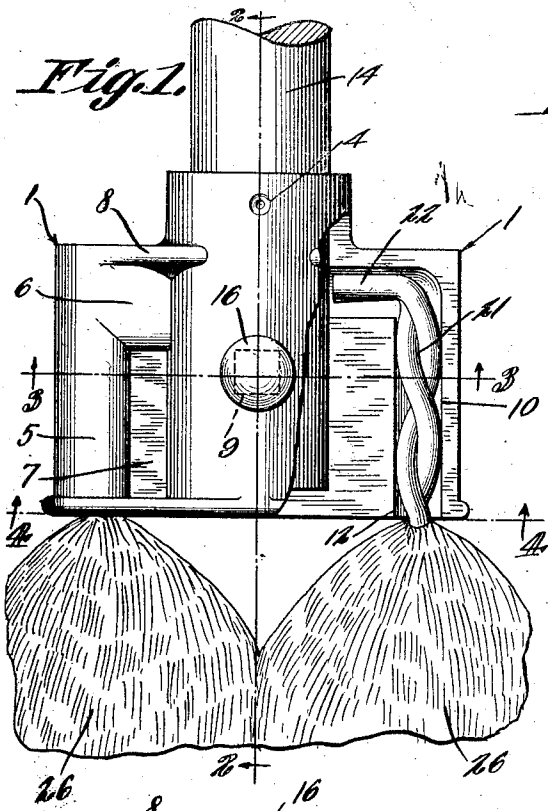


Fig. 2.

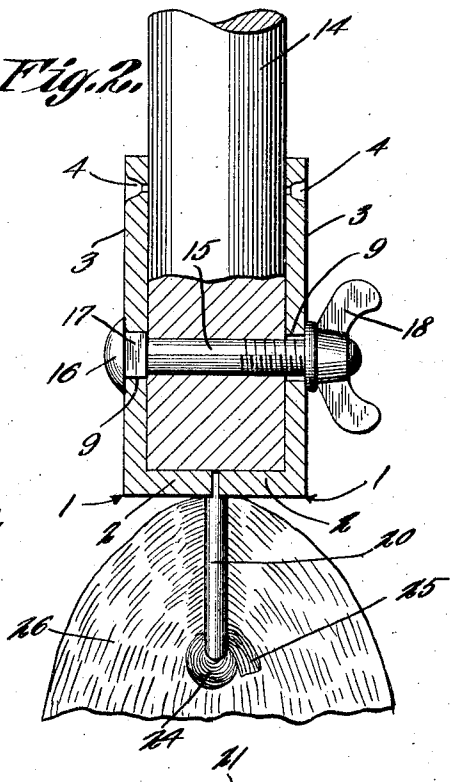


Fig. 3.

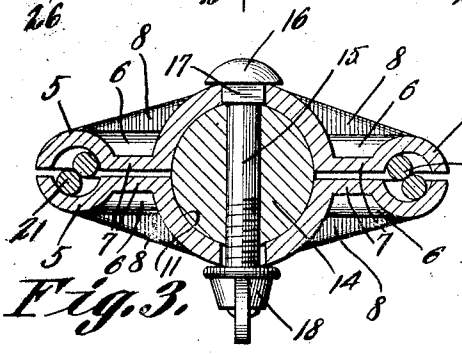


Fig. 5.

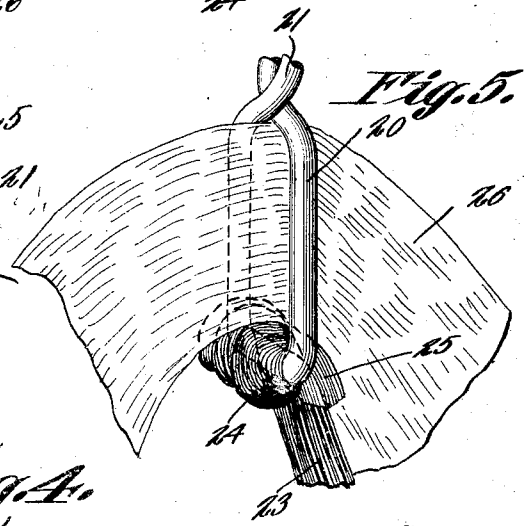
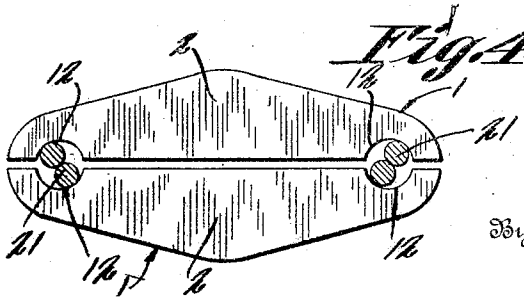


Fig. 4.



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UNITED STATES PATENT OFFICE.

JAMES GUY, OF KANSAS CITY, MISSOURI.

MOP.

Application filed December 30, 1922. Serial No. 609,998.

To all whom it may concern:

Be it known that I, JAMES GUY, a citizen of the United States, residing at Kansas City, in the county of Jackson and State of Missouri, have invented a new and useful Mop, of which the following is a specification.

The device forming the subject matter of this application is a mop, and one object of the invention is to provide novel means whereby two separate bodies may be held securely together thereby forming a twin mop, the construction being such that either of the constituent parts of the mop may be removed and renewed readily. Another object of the invention is to provide a mop which will work flat on the floor, the construction being such that furniture and the like, will not be marred or injured when struck by the mop. Another object of the invention is to provide a mop which can be assembled simply and cheaply.

It is within the province of the disclosure to improve generally and to enhance the utility of devices of that type to which the invention appertains.

With the above and other objects in view, which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that within the scope of what is claimed, changes in the precise embodiment of the invention shown can be made without departing from the spirit of the invention.

In the accompanying drawings:—

Figure 1 shows in elevation, a device constructed in accordance with the invention, parts being broken away; Figure 2 is a section on the line 2—2 of Figure 1; Figure 3 is a section on the line 3—3 of Figure 1; Figure 4 is a section on the line 4—4 of Figure 1, the view being in substance, and end elevation of the clamp; Figure 5 is a diagrammatic view illustrating the way in which the body of the mop is made.

The clamp portion of the mop comprises two metal jaws of identical construction each jaw embodying a base plate 2 carrying a central trough-shaped rib 3 which may be denominated a main rib, the rib being provided adjacent to its outer end with an opening 4. The base plate 2 carries auxiliary or side ribs 5, these ribs being trough-shaped, like the main rib 3, and being located on opposite sides of the main rib. Each side rib 5 has an inwardly prolonged extension 6 which merges into the main rib 3 and communicates therewith. The ribs 5—6 are connected with the rib 3, and with the base plate 2, by a web 7 which extends longitudinally of the clamp. A transverse flange 8 connects the upper portion of each rib 5—6 with the intermediate portion of the rib 3. The rib 3 is provided intermediate its ends with a rectangular opening 9. The ribs 5—6 form, in the inner surface of each jaw 1, an L-shaped socket 10, as shown at the right hand side of Figure 1.

When the jaws 1 are placed together as shown in Figure 3, the ribs 3 cooperate to form a tubular central socket 11, and in the lower end of the clamp there are openings formed by notches 12 in the base plate 2, these notches communicating with the lower ends of the L-shaped sockets 10. A handle 14 is inserted into the tubular central socket 11 and may be held therein in any suitable way, for instance, by securing elements (not shown) mounted in the openings 4. Preferably, however, the handle 14 is held in place by a securing element 15, such as a bolt, passing through a transverse opening 19 which is formed in the handle. The bolt 15 has a head 16 and a polygonal neck 17, the head of the bolt abutting against the part 3 of one jaw 1, and the bolt being held against rotation, because the neck 17 of the bolt is received in the correspondingly shaped opening 9. A wing nut 18 is threaded on the bolt and bears against the part 3 of the corresponding jaw 1. The body of the mop consists of two members, and each of these members is held by a retainer, including a loop-shaped head 20 a shank 21 and a lateral arm 22 on the shank, the retainer preferably being made of a piece of heavy wire which is twisted to form the shank 21 and the arm 22. The body of the mop is made of twine, fiber, rags or any other suitable material, and includes an inner member 23 which is engaged or wrapped, in a plurality of convolutions as shown at 24 about the outer end of the loop-shaped head 20 of the retainer, the said inner member having a short end 25. The outer member 26 of the mop is of U-shape, and passes through the head 20 of the retainer, the inner member 23 of

the body of the mop lying between the side arms of the outer member 26. In the twisting of the shank 21, the loop-shaped head 20 is tightened about the constituent members 23 and 26 of the mop body. The shanks 21 of the retainers pass through the openings formed by the notches 12, the shanks 21 and the arms 22 of the retainers lying in the L-shaped sockets 10 and being bound tightly therein by the action of the bolt 15 and the nut 18 on the constituent jaws 1 of the device.

The member 23 acts as a spreader or core for the outer member 26, and the part 24 serves to prevent the member 26 from wearing due to contact with the bottom portion of the head 20.

What is claimed is:—

1. In a device of the class described, a head comprising a looped mop holder, and mop material having an inner portion wrapped in a plurality of convolutions about the bottom of the holder, and a U-shaped outer portion passing through the holder and housing said inner portion.

2. In a device of the class described, a clamp comprising a pair of jaws provided with elements which cooperate to form a central socket, the jaws being supplied, upon their inner surfaces, and upon each side of the socket, with cooperating inverted L-shaped grooves which extend upwardly from the bottom of the clamp and inwardly adjacent to the top of the clamp; a looped mop holder disposed below the bottom of the socket, and provided with L-shaped shanks received in the grooves, a handle in the socket, and a tightening device engaged with the jaws and with the handle.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

JAMES GUY.

Witnesses:
M. BINGHAM,
W. J. SKEEN.