May 23, 1939. J. BUNDENTHAL ET AL 2,159,350

MOP HOLDER

Filed June 12, 1937

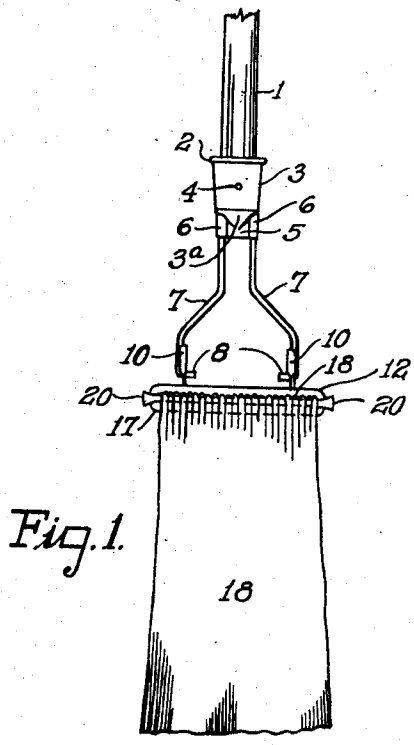



Fig. 1.

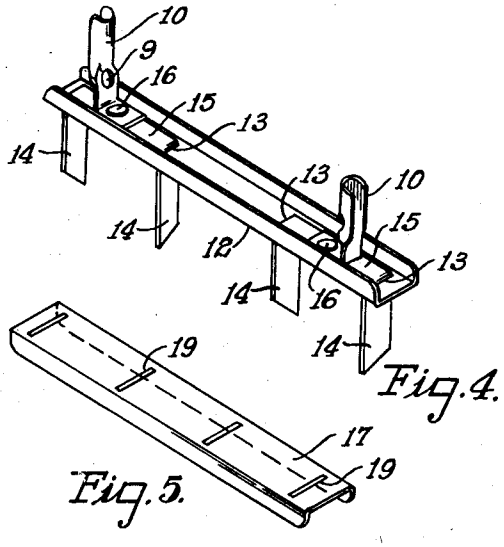



Fig. 4.




Fig. 5.

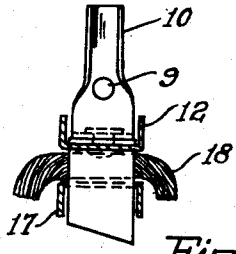



Fig. 2.




Fig. 6.

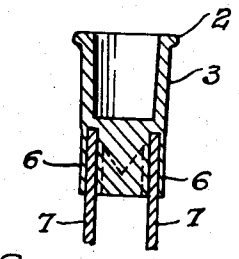



Fig. 3.

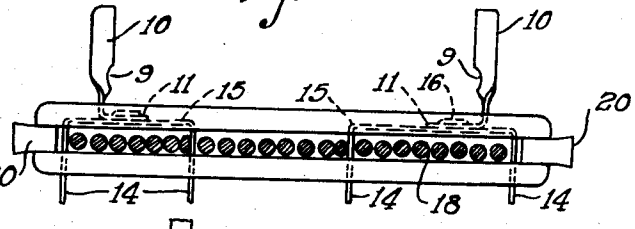



Fig. 7.

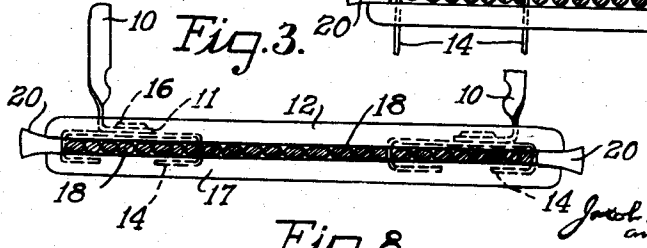



Fig. 8.

INVENTORS,
Jacob Bundenthal, Georg Bundenthal
and William D. Kimpton,
BY
Howard D. Smith,
Their ATTORNEY

Patented May 23, 1939

2,159,350

# UNITED STATES PATENT OFFICE

2,159,350

## MOP HOLDER

Jacob Bundenthal, George Bundenthal, and William D. Kimpton, Dayton, Ohio

Application June 12, 1937, Serial No. 147,950

1 Claim. (Cl. 15—147)

This invention relates to new and useful improvements in mop holders.

It is one of the principal objects of our invention to provide a simple, economical and efficient mop holder for removably holding the strands of a mop head together without stitching. The mop head and holder are easy to assemble, and form together a light structure which is easy to handle and economical to manufacture.

Other important and incidental objects will be brought out in the following specification and particularly set forth in the subjoined claim.

In the accompanying drawing illustrating our invention, Figure 1 is a side view of our mop holder and attached mop head. Figure 2 is a sectional view taken through the clamping jaws secured together with the mop head strands between them. Figure 3 is a longitudinal sectional view taken through the handle ferrule and attached prong ends. Figure 4 is a perspective view of the clamping jaw which carries the U-shaped attaching prong member. Figure 5 is a perspective view of the slotted clamping jaw member. Figure 6 is a perspective view of one of the rubber bumpers applied to the ends of the clamping assembly. Figure 7 is a side view of the clamping assembly and gripped mop head strands, before the legs of the U-shaped prong members are bent against the bottom of the slotted jaw member. And Figure 8 is a side view of said clamping assembly after the legs of said prong members are bent against the bottom of the slotted jaw member.

Referring to the accompanying drawing for a detailed description of our invention, the numeral 1 designates a conventional mop handle to the inner end of which is applied a ferrule 2. This ferrule is a casting which comprises a tapering sleeve portion 3 that fits, and is secured to, the inner end of the wood handle 1 by nails or other suitable fastening elements.

Projecting forwardly from the middle portion of the ferrule casting 2 is a web 5 having annular hollow sides 6, 6 to receive the inner ends of two spring prongs 7, 7 respectively. At its prong end the sleeve has a conical portion 3a that merges with the web to reinforce the latter.

The prongs 7, 7 are made of strong spring wire having parallel straight inner portions that incline outwardly and then forwardly, terminating in inwardly-turned hole engaging ends 8, 8.

The prong ends 8, 8 are adapted to be sprung apart a sufficient distance to engage in holes 9, 9 in upright members 10, 10 having foot portions 11 that are riveted to the bottom surfaces of a channel clamping jaw 12. This jaw is formed with transverse slots 13, in this instance four, through which the legs 14, 14 of two U-shaped prong members 15, 15 project. The cross portion of each prong member 15, which is preferably a stamping, is secured to the bottom of the channel jaw 12, below the foot portion of a respective upright member 10, by the same rivet 16 which secures that member to the jaw.

The jaw 12 is adapted to be placed back to back with a similar channel jaw 17 to firmly grip the strands of a mop head 18, by passing the legs 14 of the U-shaped prongs 15 of the first jaw through transverse slots 19 formed in the second jaw. After this is done, the legs 14 of the prong members 15, 15 are bent against the bottom surface of the second jaw in its concave portion to firmly secure the jaws together with the mop head strands 18 firmly in their grip. To release these strands for the substitution of new ones in the clamp, it is only necessary to bend the legs of the U-shaped prongs 15, 15 to an upright position whereupon the jaws 12 and 17 may be easily pulled apart and the strands withdrawn from between them.

When the jaws 12 and 17 are secured together with the mophead strands 18 in their grip, segmental rubber bumpers 20 are compressed between the ends of those jaws to protect objects from being marred when the mop holder strikes them.

If it is desired to remove the complete mophead unit from the handle, it can easily be done by spreading the ends of the prongs 7, 7 a sufficient distance to clear the holes 9 in the upright members 10, 10 on the clamping jaw 12.

It is now seen that we have provided a light, easily handled and efficient mop holder for household and other uses.

Having described our invention, we claim:

A clamp for a mop head, comprising two channel shaped jaw members, said jaw members being formed with registering slots, two U-shaped prong members whose legs project through adjacent slots in one jaw member for projection through the corresponding slots of the second jaw member when said jaw members are disposed back to back, the legs on said U-shaped members adapted to be bent against the inner surface of the second jaw member within its concave portion to firmly secure it to the first jaw member, vertical handle-prong receiving elements having foot portions riveted to the first jaw member over the cross portions of the U-shaped members in the concave portion of said first jaw member to fixedly attach said prongs to the latter.

JACOB BUNDENTHAL.
GEORGE BUNDENTHAL.
WILLIAM D. KIMPTON.