

No. 809,243.

PATENTED JAN. 2, 1906.

H. BITNER.
MOP HOLDER.
APPLICATION FILED MAR. 21, 1904.

Fig. 1.

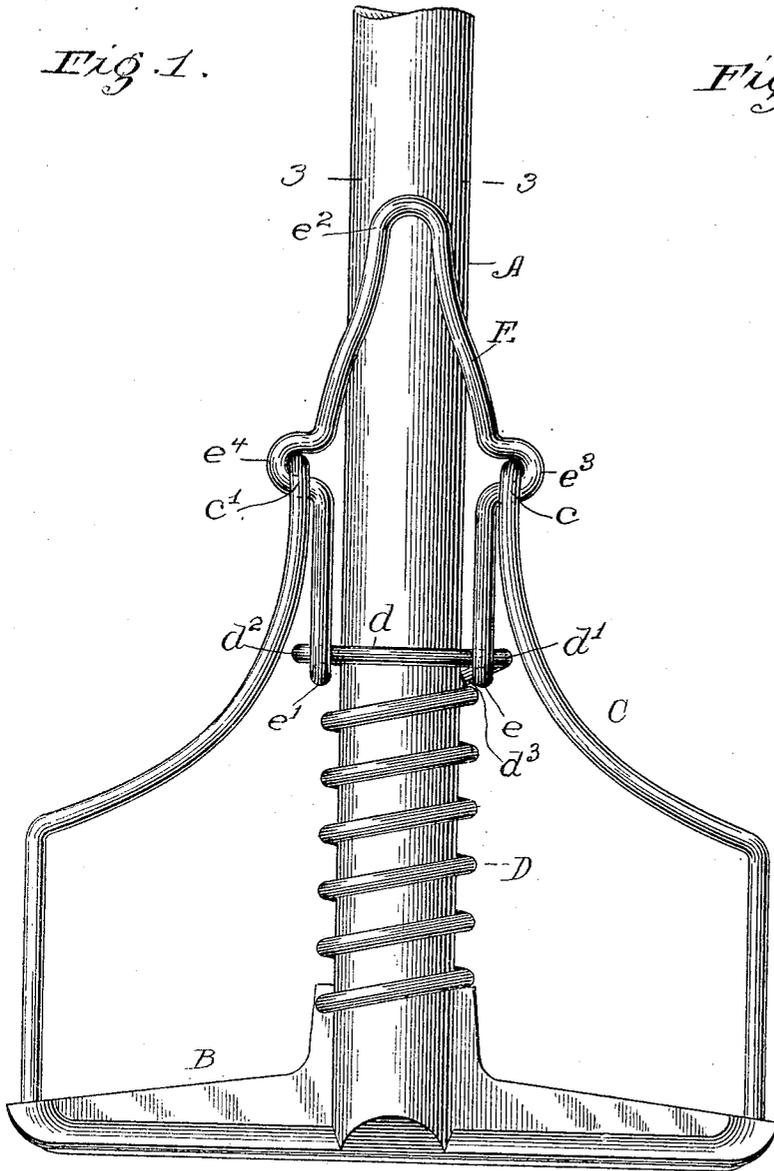


Fig. 2.

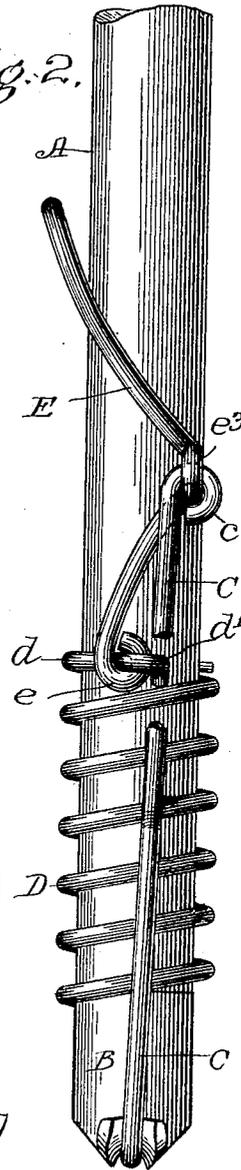
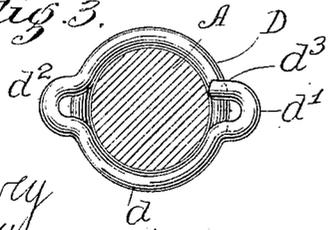


Fig. 3.



Witnesses:

Chas. O. Sturwey
Russell Miller

Inventor:

Harry Bitner

UNITED STATES PATENT OFFICE.

HARRY BITNER, OF BERWYN, ILLINOIS, ASSIGNOR TO ARCADE MANUFACTURING COMPANY, OF FREEPORT, ILLINOIS, A CORPORATION OF ILLINOIS.

MOP-HOLDER.

No. 809,243.

Specification of Letters Patent.

Patented Jan. 2, 1906.

Application filed March 21, 1904. Serial No. 199,192.

To all whom it may concern:

Be it known that I, HARRY BITNER, a citizen of the United States of America, residing at Berwyn, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Mop-Holders, of which the following is a specification.

My invention relates to improvements in mop-holders, the purpose of which is to put certain parts thereof into simple and convenient form and to cheapen the cost, at the same time improving so far as possible the general make-up of the device.

To these ends it consists in certain novel features or characteristics of the various parts, which will be fully described in connection with the preferred construction and the essential portions thereof be clearly pointed out in the claims appended hereto.

In the drawings, Figure 1 is a front view of the lower portion of the mop-holder, including all of the working parts thereof. Fig. 2 is a side view of the same, and Fig. 3 is a horizontal section in the line 3 3 of Fig. 1 looking downward.

In the preferred form of my device a stick A, a cross-head B, secured thereon at the lower end, and a bail C, guided on the cross-head and extending therefrom along the stick, are preferably arranged as is customary in similar devices. A spring D is placed upon the stick above the cross-head, and one of the upper coils thereof, d , has oppositely-extending U-shaped bends d' d^2 , which afford a simple, convenient, and effective means by which an opening and closing lever E may be pivoted at its lower end to the spring by means of eyes e e' , encircling, respectively, one of the sides of the U-shaped bends in the spring. The portion of the wire of the spring adjacent to the U-shaped bend d' which is farther up the coil of the spring than the bend d^2 is preferably brought downward toward the next lower coil, as at d^3 , to furnish a bearing against said coil, avoiding any possibility of an unequal thrust of the end of the lever upon the two sides of the spring. The lever E is preferably formed of wire bent at its middle portion e^2 to form the upper end of the lever, the two parts of the wire being brought down and pivoted to the spring by means of the eyes above referred to. Between the upper and lower ends of the lever the latter has opposite outwardly-extending

U-shaped bends e^3 e^4 , upon one of the sides of which the upper ends of the bail C are respectively pivoted by means of eyes c c' . These opposite outwardly or laterally extending U-shaped bends of the lever furnish an exceedingly simple, cheap, and convenient means of pivoting the upper ends of the bail thereto. They are easy to make, afford an excellent pivotal connection, and do not interfere with making the lever in a neat and attractive form.

In operation my improved device follows similar devices of the same class, the opening and closing of the jaws of the mop being effected by the swinging of the lever upon its pivotal connection with the spring and its pivotal connection with the bail passing through the plane of the cross-head and the spring-pivots, so as to lock the lever when closed. The spring is adapted to yield to such an extent as is desirable to permit of the movements of the lever and to accommodate the mop-holder to various thicknesses of cloths.

I claim as new and desire to secure by Letters Patent—

1. The combination with a stick, a cross-head on the end of the stick, and a bail guided on the cross-head and extending therefrom along the stick, of a spring on the stick above the cross-head, one of the upper coils of said spring being provided with oppositely-extending U-shaped bends, and a lever pivoted upon said U-shaped bends and connected with the upper ends of the bail.

2. The combination with a stick, a cross-head on the lower end thereof, and a bail guided on the cross-head and extending therefrom along the stick, of a lever pivotally supported at its lower end adjacent to the stick, said lever being formed of wire having oppositely-extending U-shaped bends and suitable connections with the bail pivoted upon said U-shaped bends.

3. The combination with a stick, a cross-head on the lower end thereof, and a bail guided on the cross-head and extending therefrom along the stick, of a lever pivotally supported at its lower end adjacent to the stick, said lever being formed of wire having oppositely-extending U-shaped bends and eyes upon the upper ends of the bail, pivoted upon said U-shaped bends.

4. The combination with a stick, a cross-

head on the end of the stick and a bail guided
on the cross-head and extending therefrom
along the stick, of a spring on the stick above
the cross-head, a lever bent into approxi-
5 mately U shape, having a bearing at its lower
end upon the upper portion of the spring, and
having laterally-extending U-shaped bends
by means of which it is pivoted to the upper
ends of the bail.

10 5. The combination with a stick, a cross-
head on the end of the stick, and a bail
guided on the cross-head and extending there-
from along the stick, of a spring on the stick
above the cross-head, one of the upper coils
15 of said spring having laterally-extending U-
shaped bends and the wire adjacent to the
upper bend brought down toward the next
coil of the spring to afford a bearing thereon,
and a lever pivoted upon said U-shaped bends
20 and connected to the upper end of the bail.

6. The combination with a stick, a cross-
head on the end of the stick, and a bail
guided on the cross-head and extending there-
from along the stick, of a spring on the stick
above the cross-head, one of the upper coils 25
of said spring being formed with oppositely-
extending U-shaped bends, and an approxi-
mately U-shaped wire lever pivoted by
means of the ends of the wire upon the U-
shaped bends, and having, between its ends, 30
laterally-extending U-shaped bends upon
which the upper ends of the bail are pivoted.

In witness whereof I have signed the above
application for Letters Patent, at Chicago, in
the county of Cook and State of Illinois, this 35
1st day of March, 1904.

HARRY BITNER.

Witnesses:

CHAS. O. SHERVEY,
RUSSELL WILES.