

L. S. WELCH.
Fly-Switches.

No. 138,719.

Patented May 6, 1873.

Fig. 1.

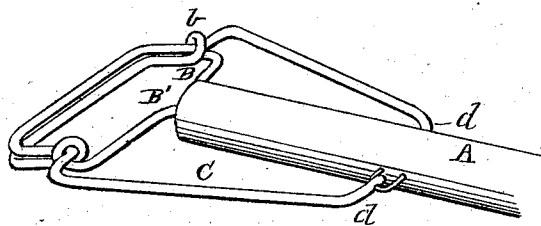
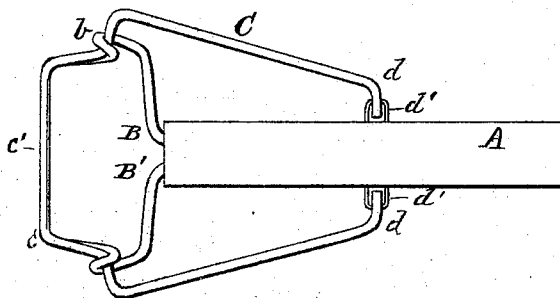


Fig. 2.



Witnesses.

J. Horner
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Inventor:

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A. H. W. J. Horner
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Att.

UNITED STATES PATENT OFFICE.

LYMAN S. WELCH, OF CANAAN, NEW HAMPSHIRE.

IMPROVEMENT IN FLY-SWITCHES.

Specification forming part of Letters Patent No. **138,719**, dated May 6, 1873; application filed October 15, 1872.

To all whom it may concern:

Be it known that I, LYMAN S. WELCH, of Canaan, Grafton county, New Hampshire, have invented certain Improvements in Fly-Switches, Mops, Dusters, and the like, of which the following is a specification; and I do hereby declare that the same is a full, clear, and exact description of my said invention, reference being had to the accompanying drawing and to the letters of reference marked thereon.

My invention relates to a device which serves as a clamp, in which strips of paper or fibers of other material may be inserted and secured, the whole of which, when connected with a suitable handle, is designed to form a switch, mop, or duster.

In the accompanying drawing forming a part of this specification, a perspective view of my invention is shown.

A is the handle. B is one end of a wire securely inserted within one end of the handle. The wire B diverges from the handle at a right angle thereto, then is bent so that a twist, *b*, is formed, the wire then continuing parallelly with the handle to the point *c*, when it turns again at right angle, reaching the center line *c'*. The other half of the wire assumes the same contour as that of the half just described, terminating in the end B', also inserted within the handle A. The wire B B', as described, forms one half of the clamping device or a stationary jaw. Another wire, C, is hinged

within the twists *b* and follows the outline of the clamping part of the wire B B', but falls inward from the parts inserted within the twists *b* toward and reaching to the sides of the handle. The extremities of the wire at these points are bent inward, as shown by *d*. Small stops or rests are represented by *d'* attached to the handle, and serve to hold the ends *d* when by the elasticity of the wire they are pressed down.

To operate the jaws formed by the two wires the ends *d* must be sprung out laterally from the handle, so that they lose contact with the rests *d'*. The switch papers or fibers can then be placed within the jaws. The ends *d* must then be replaced upon the rests *d'*, and the switch or mop is securely clamped within the jaws. If papers are used they may be cut to about twenty inches in length and one in width.

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

The combination of the wires B B' and C, linked and adjusted together, as shown, with the handle A and rests *d'*, substantially as and for the purposes set forth.

LYMAN S. WELCH.

Witnesses:

JOHN M. BARBER,
MARY M. BARBER.