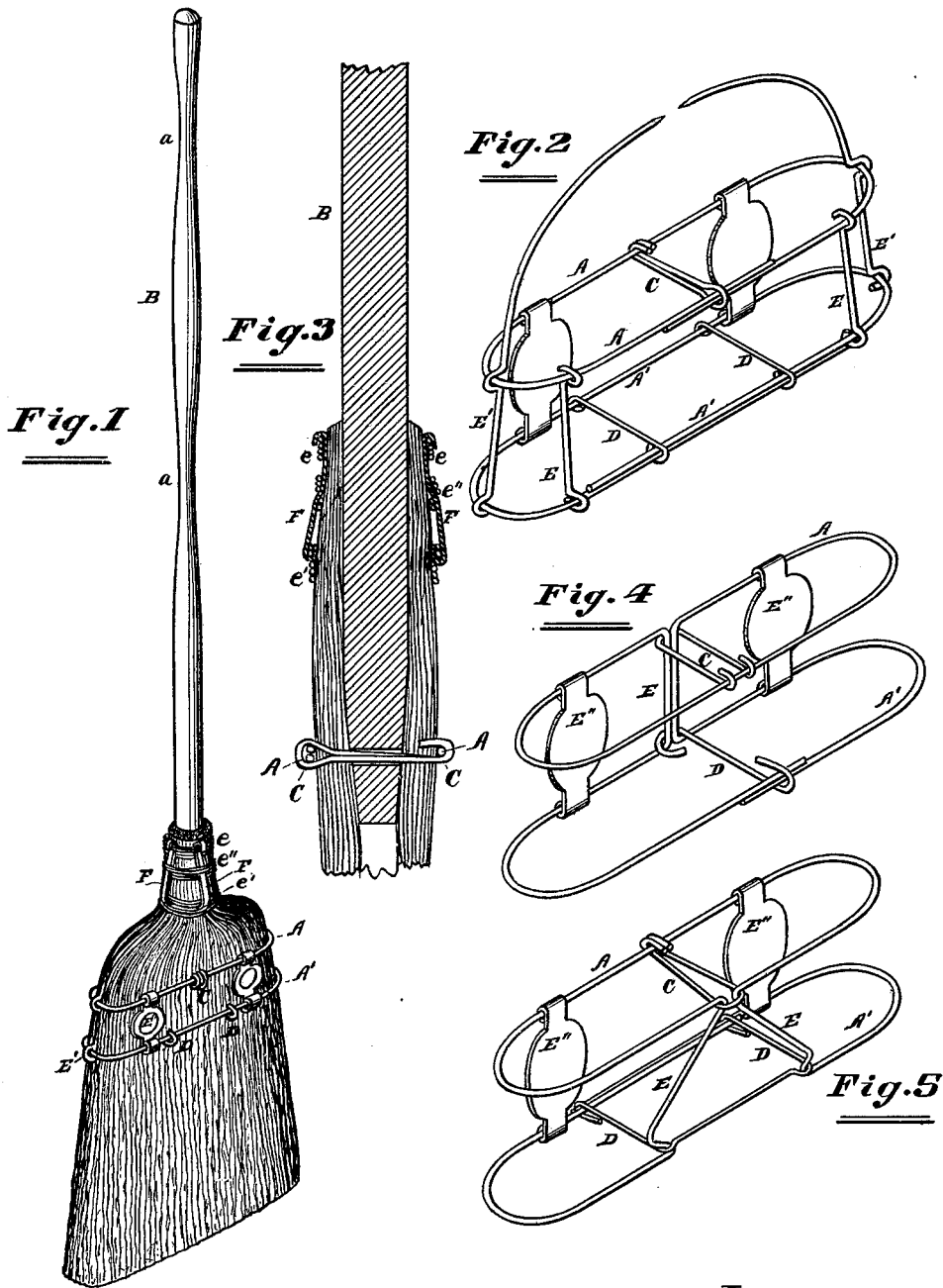


G. PIRRUNG.
Broom-Binding Device.

No. 206,823.

Patented Aug. 6, 1878.



Attest:
S. Schoff
D. D. Pirrung

INVENTOR:
George Pirrung
By Coyne & Co. his
Attorneys.

UNITED STATES PATENT OFFICE.

GEORGE PIRRUNG, OF RAVENSWOOD, ILLINOIS.

IMPROVEMENT IN BROOM-BINDING DEVICES.

Specification forming part of Letters Patent No. **206,823**, dated August 6, 1878; application filed December 17, 1877.

To all whom it may concern:

Be it known that I, GEORGE PIRRUNG, of Ravenswood, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Brooms, of which the following is a full, clear, and exact description, which will enable others skilled in the art to which my invention appertains to make and use the said improvements, reference being had to the accompanying drawing, forming a part hereof, and in which—

Figure 1 is a perspective view of a broom embodying my invention; Fig. 2, a like representation of the head or binder detached; Fig. 3, a vertical central section of the upper part of the broom-corn and of the parts employed to bind it to the handle; and Figs. 4 and 5 are perspective views of modifications in the construction of the binder employed to hold the broom-corn together in proper form.

Like letters of reference indicate like parts.

My invention relates to the means employed to bind the broom-corn together in proper form; and consists in the novel features of construction hereinafter particularly set forth, my object being to improve the parts referred to and render the broom more pliable than when bound by the ordinary method of sewing.

In the drawing, A A' represent parallel wires or bands, which may be made of either steel, iron, or other suitable material. The band A is passed firmly around the broom-corn, and is arranged a little way below the shoulder thereof, as is clearly shown in Fig. 1. B is the broom-handle, made preferably with the two contracted parts *a a*. The band A is securely fastened to the handle and retained in place upon the broom-corn by means of a staple, C, through an eye in one end of which the ends of the band A are passed. The staple C passes thence through the broom-corn on that side of the handle, through a hole in the latter, and through the broom-corn on the other side of the handle, and is then firmly clinched or fastened to that part of the band A which lies upon that side of the broom-corn. The staple C thus serves the purpose of holding the ends of the band A together, as well as of firmly securing it to the handle and holding the band in its place upon the broom.

The band A' is arranged below the band A,

and, unlike the latter, is loosely instead of firmly bound about the broom-corn, thus rendering the broom proper pliable and yielding, so that it will not only serve its purpose to greater advantage, but also be less liable to become split and broken than if it were bound by the ordinary method of sewing by means of twine, or tightly by means of a metallic band.

D D are hooks or links passing horizontally through the broom-corn, and connecting the front and rear parts of the band A' to each other, thus serving to hold the sides of this band from spreading out too far from each other, and also in aiding to connect the binder firmly to the broom.

E, E', and E'' are vertical hooks, links, or clasps for connecting the band A' to the band A. In order to connect the binder more firmly to the handle, some of these vertical links or hooks may be extended above the band A and bent and sharpened to enter the handle, as represented at E', Fig. 2. Others of the vertical clasps, as shown at E'' E'', may have enlarged disk-shaped central parts, thus making conspicuous and convenient places on which to affix labels, trade-marks, cards, &c.

It will be perceived that the binder now described is not only firmly fastened to the handle and securely held in its place upon the broom-corn, but that the latter, owing to the loose manner in which the lower band encircles the corn, is allowed to remain pliable, and consequently is not liable to be broken off. It will also be perceived that parts of the binder or head pass through the broom-corn, as well as around it and into the handle.

The binder may be easily applied, and not only renders the broom pliable and very flexible and effective for the purposes for which it is intended, but durable, strong, and cheap.

It is immaterial whether the bands A A' are made in two pieces, connected in the manner described, or whether they consist of a continuous piece, as shown in Figs. 4 and 5.

I do not intend to restrict myself to any one form of construction, but intend to cover, as features of my invention, all mere modifications in form which are justly in its scope; neither do I here intend to claim, broadly, any and all binders having parts entering the body of the broom-corn.

F F are clasps, hooks, or links arranged on that part of the broom which is bound directly upon the butt of the handle. This part is usually bound by means of several coils of wire, *e e*, wound near the upper ends of the broom-corn, and then carried, by less close coils, below the swell of the butt, and there wound into several close coils, *e' e'*. The object of making this binding-wire continuous is to connect the upper close coils to the lower ones, so as to prevent the upper ones from slipping up and from off the broom-corn. My object in employing the links F F is to produce the same result, and to economize in the use of wire for binding this part of the broom, for it is evident that a less number of coils is sufficient when the links F F are employed.

In using the links F F, I make a few coils, *e e*, laying these coils over the upper part of the clasps. I then turn the upper ends of the clasps firmly down over the coils thus made, and, if necessary, make another set of coils, *e' e'*, a little way below the first set of coils, preferably without severing the wire until the lower coils are made, when it may be severed and the end properly fastened. I then hook or clasp the lower ends of the clasps into the lower

coils, *e' e'*. The clasps F F, however, may be applied to the lower coils first, bent upward, wound by the upper coils, and then bent over the latter coils, as shown. The clasps or links F F are made of sheet metal, and may be employed with advantage in connection with my means for binding the broom-corn below the shoulder; but I make no claim to the links or clasps F F.

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

The broom-binding bands A A', made in one or more parts, and arranged parallel to each other about the upper part or shoulder of the broom-corn, the lower band being the loosest, and the said bands being connected to each other by vertical hooks or clasps, and by horizontal links passing through the broom-corn, one or more of the said links, hooks, or clasps passing through or into the handle, substantially as and for the purposes specified.

GEORGE PIRRUNG.

Witnesses:

FELIX PIRRUNG,
GEO. RUFFING, Jr.