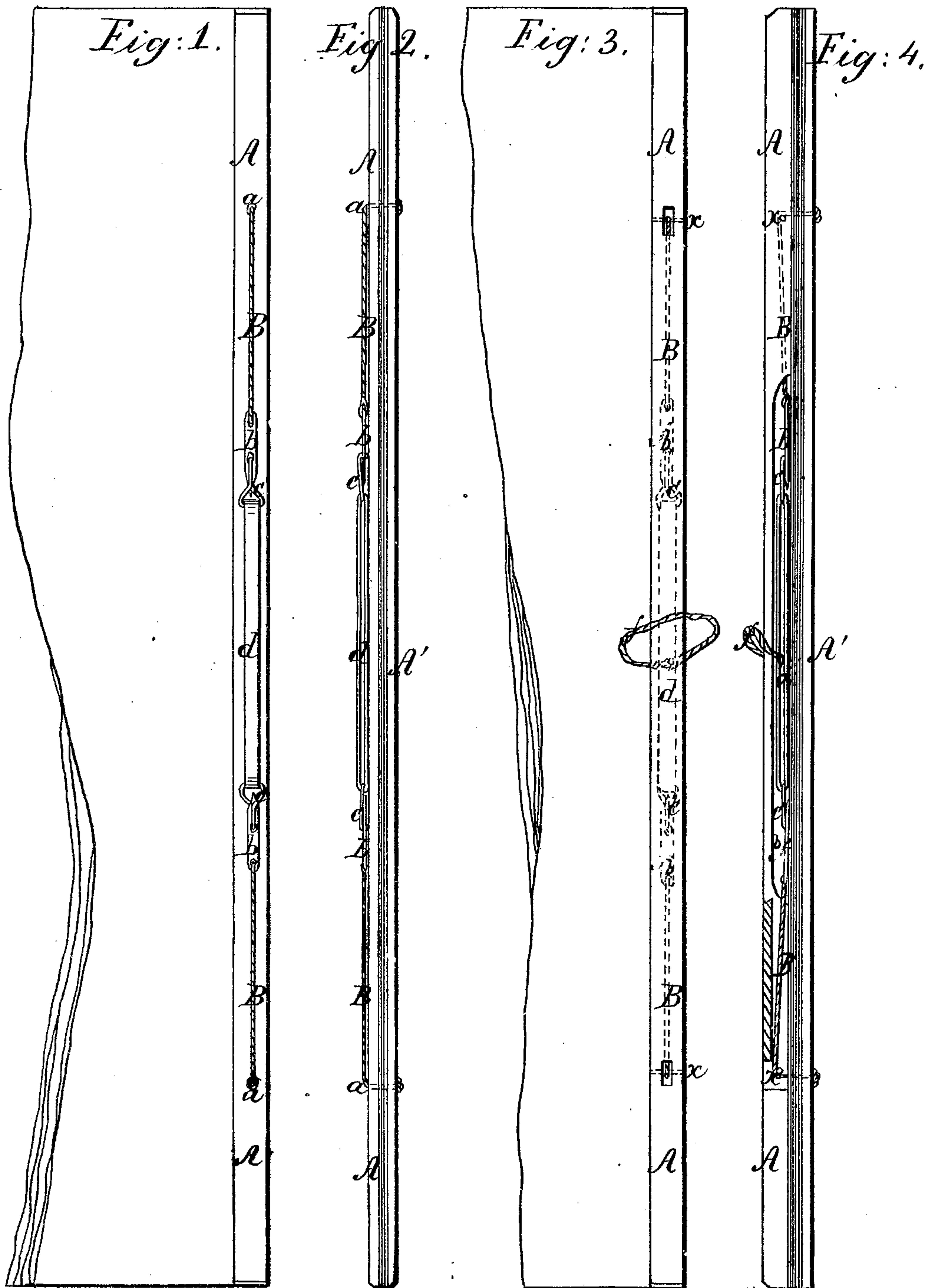


A. S. Richard. Temporary Binder.

N^o 91,268.

Patented Jun. 15, 1869.



Witnesses
A. S. Richard
W. S. Marr

Inventor.
A. S. Richard
Prindle & Byer, Attys

United States Patent Office.

A. S. RICHARDS, OF MONTGOMERY COUNTY, MARYLAND.

Letters Patent No. 91,268, dated June 15, 1869.

IMPROVEMENT IN PAPER-FILES.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, A. S. RICHARDS, of the county of Montgomery, in the State of Maryland, have invented certain new and useful Improvements in Paper-Files, or binders; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 represents a plan view of the binder, with the fastening upon the outside of the binding-strip.

Figure 2 is an edge view of the same.

Figure 3 represents a modification, in which the fastening-devices are placed within a recess upon the under side of the binding-strip, and

Figure 4 is an edge view of the same.

Letters of like name and kind refer to like parts in each of the figures.

The object of my invention is to furnish a binder for letters, papers, magazines, &c., which shall hold said articles firmly, and automatically, whether the number of sheets contained therein shall be few or many; and, to this end,

It consists in the construction and arrangement of the devices for securing together the binding-strips, and the application thereto of rubber, as will be fully described hereinafter.

In the annexed drawing—

A and A' represent two strips of wood, corresponding, in length, to the papers to be held, and so proportioned in thickness and width as to secure the necessary strength.

Near the end of each strip is a hole, corresponding with one in the opposite strip, through which passes a cord, B.

One end of the cord B is provided with a knot, to prevent its being drawn through the holes, while upon the opposite end is secured a short, flat needle, *b*, which is provided with an eye near its point, for the reception of a hook, *c*.

The hook *c* has a broad eye, or shank, through which passes a rubber band, *d*, having, upon its opposite end, a similar hook, *c*.

As thus constructed, the binder is ready for use, and is applied as follows:

The strip A being placed in position upon the paper, the needles *b b* are passed through the holes *a a*, and through the paper, so as to make an opening for the passage of the cord. The needles are then withdrawn, and from the opposite side are passed through the openings thus made in the paper, and through the binder A, and are then connected together by means of the hooks *c c* and rubber band *d*.

When thus applied, the action of the rubber band produces a sufficient degree of tension of the cord to hold the binding-strips firmly together, and securely bind the papers, regardless of the number of sheets contained therein.

As shown in figs. 3 and 4, the same devices are employed for holding together the binding-strips, but, in order to avoid all liability to derangement, and also to enable both sides of the binder to present a smooth appearance, the inner side of the strip A is grooved, or recessed, so as to contain the cords, band, &c., said cords being drawn over pins *x x*, passing laterally through the centre of the strip, in a line with the surface of the paper.

A small loop, *f*, is secured to the band *d*, and serves to draw said band from beneath the strip, so as to permit of the disengagement of the hooks.

It will be observed that the cords pass through the binding-strips and paper at a right angle thereto, which position is maintained, however great the strain upon said cord, so that no possibility exists of injury to said paper, and also, that as the binding-strips are spread apart, the pressure upon them is proportionately increased by the elongation of the rubber band, which is a great advantage, as it is evident that the pressure required to hold in place said sheets of paper must necessarily be in proportion to their number. These qualities, in connection with the simplicity of its parts, the ease with which it can be applied, and the small cost at which it can be furnished, will, it is believed, give this binder a very extensive sale.

Having thus fully set forth the nature and merits of my invention,

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

The within-described paper-file and binder, consisting of the binding strips A A', cords B B, needles *b b*, hooks *c c*, and rubber band *d*, constructed and arranged to operate substantially as and for the purpose shown.

Also, the application of the rubber band *d* to the cords B B, substantially as shown, and for the purpose specified.

Also, the needles *b b*, constructed, as described, with an additional eye, in combination with the hooks *c c* and rubber band *d* or its equivalent, substantially as and for the purpose shown.

In testimony that I claim the foregoing, I have hereunto set my hand, this day of May, 1869.

A. S. RICHARDS.

Witnesses:

EDM. F. BROWN,
GEO. S. PRINDLE.