

J. K. PARK.
BOOK-BINDING.

No. 175,740.

Patented April 4, 1876.

Fig. 1

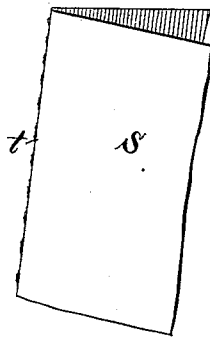
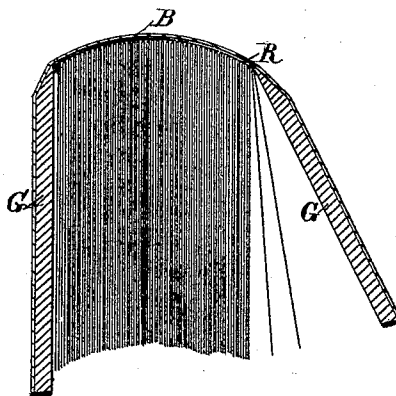


Fig. 2



Witnesses:
Grenville Lewis
W. E. Schaffer.

Inventor;
Jesse K. Park-
by C. M. Parks.
attys -

UNITED STATES PATENT OFFICE.

JESSE K. PARK, OF MARLBOROUGH, NEW YORK.

IMPROVEMENT IN BOOK-BINDING.

Specification forming part of Letters Patent No. **175,740**, dated April 4, 1876; application filed October 11, 1875.

To all whom it may concern:

Be it known that I, JESSE K. PARK, of Marlborough, in the county of Ulster, New York, have invented certain new and useful Improvements in Book-Binding; and I do hereby declare the following to be a full and correct description of the same, reference being had to the accompanying drawings, in which—

Figure 1 is a perspective of single stud. Fig. 2 is a horizontal section through back.

My invention relates to improvements in book-binding, especially applicable to the binding of account and other blank books, the object being to secure strength and durability, together with great facility of opening, in order to present a flat surface for writing.

The nature of my invention consists in binding the book of single sheets of paper once folded, the folded edge *t* being roughened throughout its length by a suitable puncturing or other roughening tool, and, after being sewed, treated with a cement of dissolved caoutchouc or gutta-percha, and attached to rubber bands and backing, and finally rounded and covered, all as hereinafter more particularly set forth.

In the ordinary process of book-binding, the paper is folded and put together in sections, containing commonly from three to six sheets. It is then sewed on to parchment bands, glued, rounded by hammering, pressed, trimmed, glued again, and backed with leather, covered, and finished.

The fundamental difference between my method of binding and the common one consists in the preparation of the paper and the fastening of it together at the beginning of the operation.

I make up the book entirely of single sheets. These, after folding, are roughened along the outside of the back fold by a puncturing-tool, or any suitable instrument for the purpose, which drives the displaced portion of the paper to the outside, making a rough and jagged or serrated line of partially torn and projecting bits of paper along the back of each sheet.

The object of this operation is to give a

roughened surface to which the cement can attach itself, so as to get a thorough hold of the back edge of the paper throughout its entire length.

Thus prepared and folded, the sheets are sewed one by one to bands of rubber cloth, *R*, instead of parchment, and the book is then rounded in a hollow form by pressure without hammering. I now apply to the rounded back *B* a series of coats of rubber or gutta-percha varnish or cement, which enters between the projections of the roughened back edges of the sheets of paper, and becomes thoroughly incorporated with them. I next put two or three thicknesses of rubber cloth on the varnished back, instead of applying leather and glue, as in the common method, and I thus obtain a very durable and strong yet flexible back, in which the back edge of each sheet is embedded in rubber cement or varnish, and firmly held in its place and adherent to the flexible back.

For the sides of the book, I bevel the boards *G*, and place their rear edges even with the back, as I find it tends to clamp the leaves and hold them securely in proper position.

Having thus fully described the nature and object of my invention, I wish it to be understood that I do not limit myself to any particular method of roughening the backs of the folded sheets, as that can be accomplished in a variety of ways without substantially affecting the result.

I claim—

As an article of manufacture, a bound book consisting of a series of folio sheets perforated at and throughout the entire length of their folds, sewed to rubber bands, and secured to rubber backing with rubber or gutta-percha cement, substantially as herein described.

The above specification of my said invention signed and witnessed at Marlborough, New York, this 18th day of September, A. D. 1875.

JESSE K. PARK.

Witnesses:

JERE. BARNHAUS,

WM. B. VAN HEYNIGEN.