

A. HOLBROOK, Jr.
BOOKBINDING.

No. 79,123.

Patented June 23, 1868.

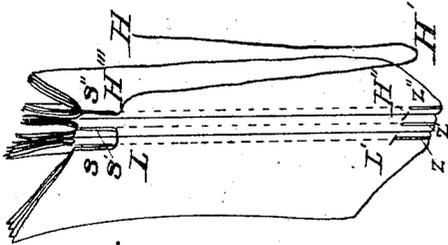


Fig. 2.

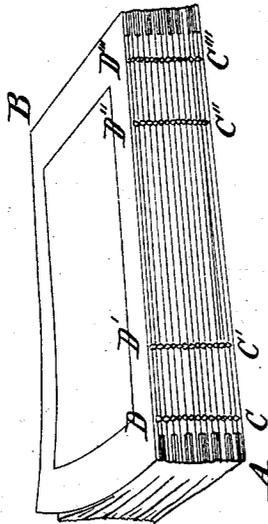


Fig. 1.

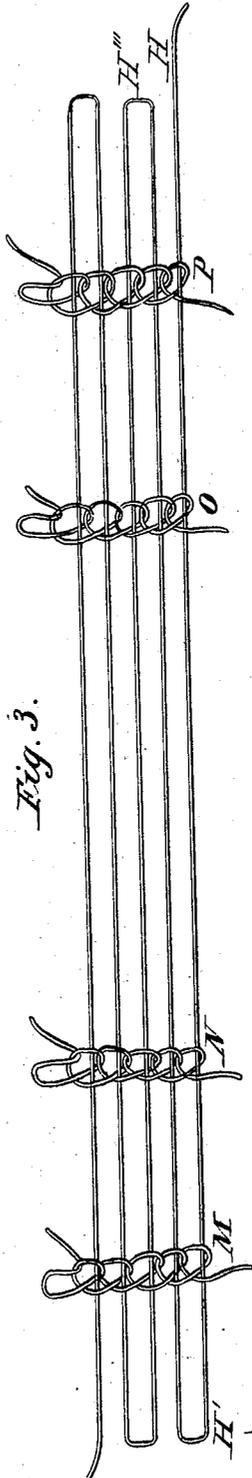


Fig. 3.

Witnesses:

A. Owen Berry
Frank G. Parker

Inventor:

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AMOS HOLBROOK, JR., OF LYNN, MASSACHUSETTS.

Letters Patent No. 79,123, dated June 23, 1868.

IMPROVEMENT IN BOOK-BINDING.

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, AMOS HOLBROOK, Jr., of Lynn, in the county of Essex, and State of Massachusetts, have invented certain new and useful Improvements in the Method of Sewing Books; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

To enable others skilled in the art to make and use my invention, I will proceed to describe its nature and construction.

The nature of my invention consists in a novel arrangement of the thread used for connecting the different signatures of a book in the process of binding; the object of said arrangement being to adapt the work to the operation of a book-sewing machine, the said arrangement being this: I unite the different signatures by passing a parallel thread within the fold of each signature, said thread passing from signature to signature at or near the end, these parallel threads being connected at regular intervals by a single or double-chain stitch.

Drawings.

Figure 1 is a perspective view of a book sewed by my improved method.

Figure 2 is a perspective view of three signatures united by a parallel thread, which passes through the fold of one signature, thence through the slit at the end of the signature, through a corresponding slit in the end of the next one, thence through the fold of this signature, and so on.

Figure 3 is a sketch showing the relative positions of the parallel threads, and of the threads which form the chain-stitch, for uniting these parallels.

To sew a book by my process, I proceed as follows: The first signature to be sewed is brought into position for sewing, and the parallel thread H H' H'', &c., is passed through it, the thread entering the first signature at H'', fig. 2, through the slit S''; thence it passes in the fold of the first signature to the slit Z'' at the opposite end of the same signature. Having passed through this slit, it passes over to the next signature, as represented by H''' into the slit Z' of the second signature, through the fold of which it passes to the slit S', and thence, as represented by L, to the slit in the third signature, and so on.

While the above process is going on, a second one is also in progress; that is, as soon as the thread has passed through the length of one signature a number of chain-stitches, M N O P, are formed around that thread in the scarfs C D, C' D', &c., fig. 1. When this operation is complete, the first operation continues, that is, the parallel thread is passed through the second signature. This is no sooner completed than a second series of chain-stitches is formed around it, which operation serves to bind the parallel thread of the first signature to the parallel thread of the second signature.

This twofold process is continued until all the signatures are united.

If desirable, the chain-stitches may be formed through a strong tape, which would serve to give additional strength to the book, and also serves to unite the covers to the book, or a strong twine may be substituted.

It will be seen from the above that my method of sewing differs from those in common use in two essential particulars: first, in passing a parallel thread through the fold in a signature from end to end, then passing it through a slit at this end to the next signature, and so on; second, in uniting these parallel threads by the chain-stitch formed in the scarfs, as above described.

What I claim as my invention, is—

1. Connecting two or more signatures of a book by a parallel thread passing within the fold of each signature, and through the slit in the end to the next signature, substantially as described and for the purpose set forth.
2. Combining with the parallel thread, arranged as set forth in the first claim, series of chain-stitches, substantially as described and for the purpose set forth.

AMOS HOLBROOK, Jr.

Witnesses:

A. HUN BERRY,
FRANK G. PARKER.