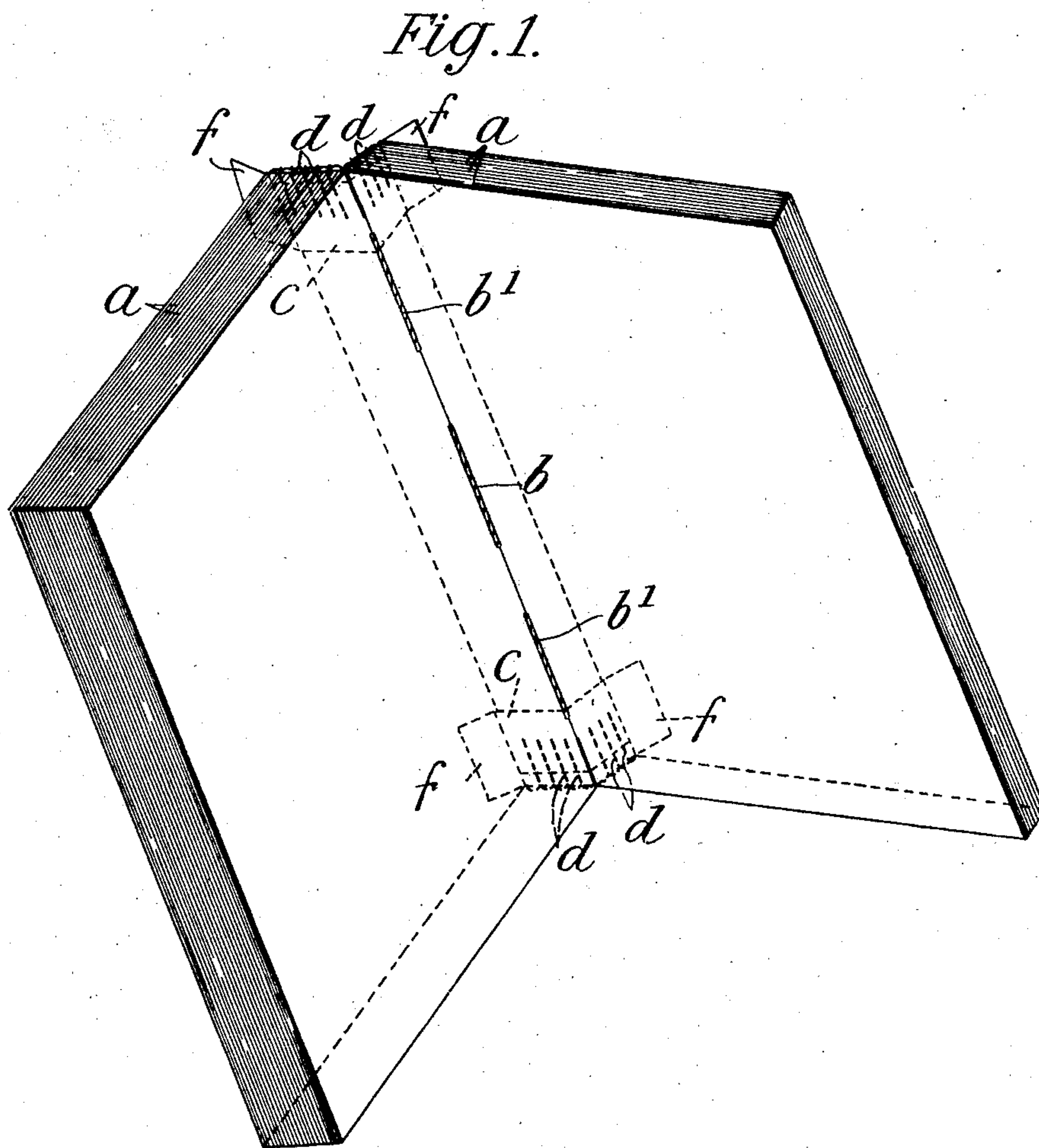


No. 859,740.

PATENTED JULY 9, 1907.

C. CHIVERS.
BOOKBINDING.
APPLICATION FILED FEB. 4, 1907.

2 SHEETS—SHEET 1.



WITNESSES.
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2 SHEETS—SHEET 2.

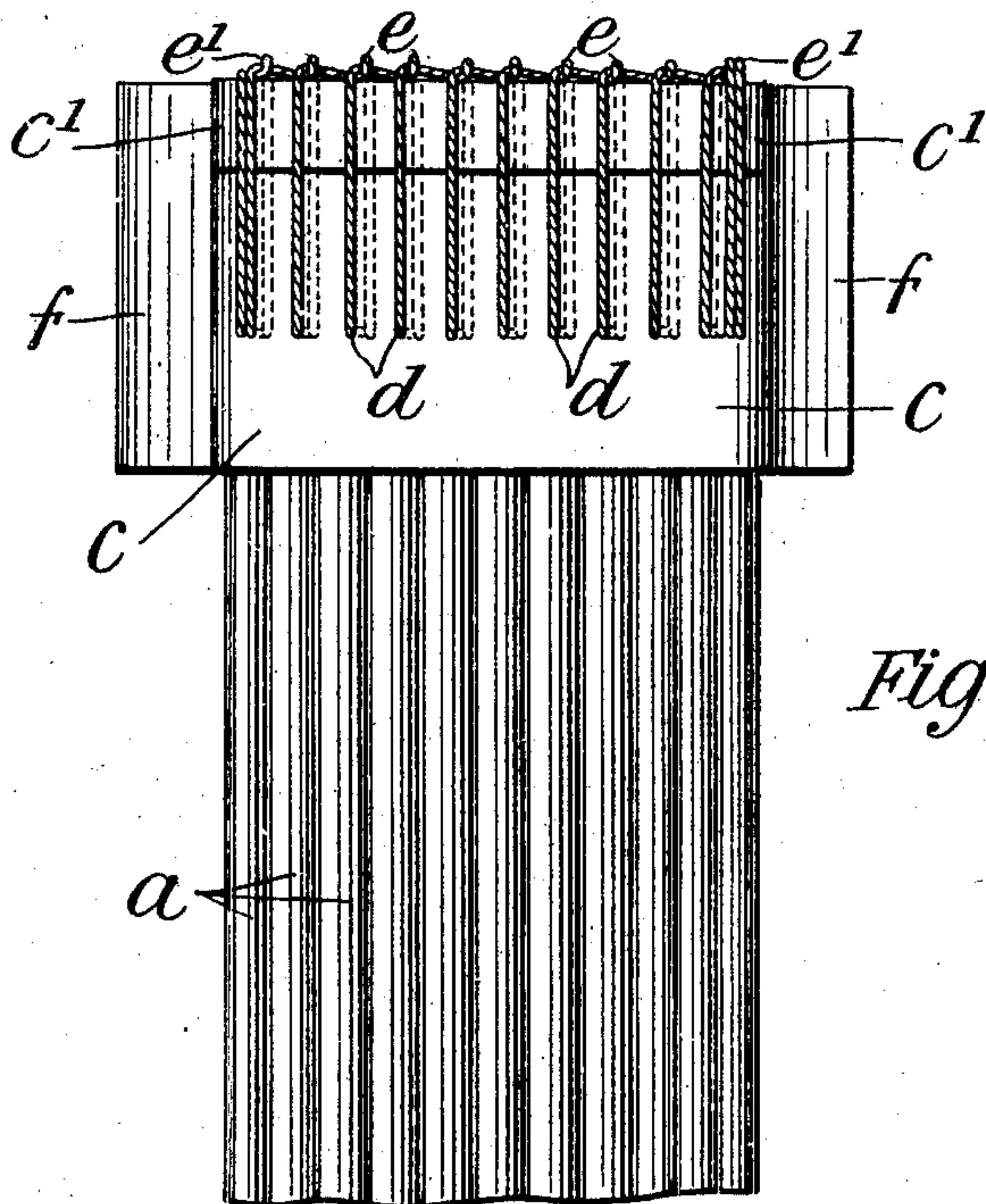
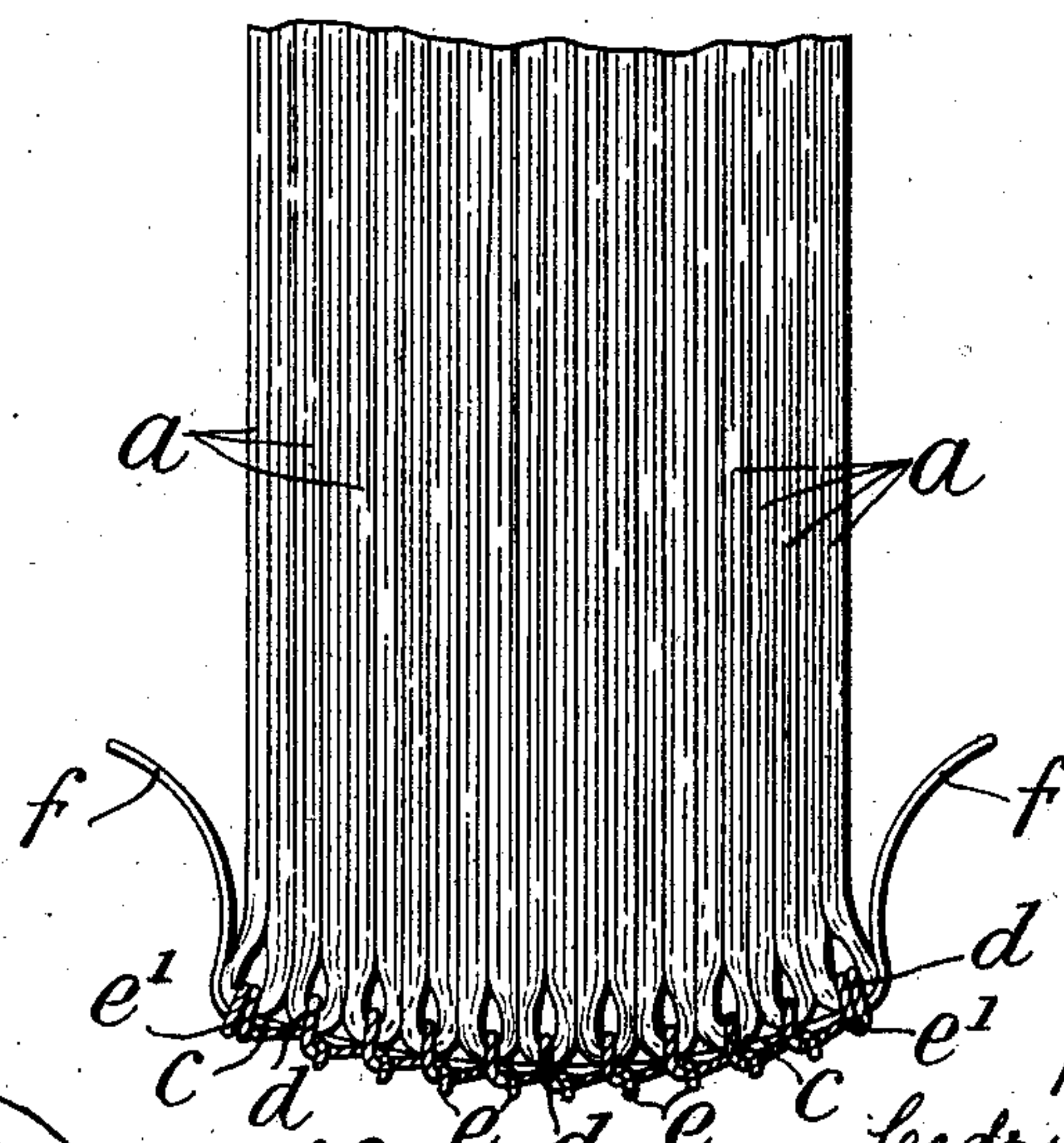


Fig. 3.



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UNITED STATES PATENT OFFICE.

CEDRIC CHIVERS, OF BATH, ENGLAND.

BOOKBINDING.

No. 859,740.

Specification of Letters Patent.

Patented July 9, 1907.

Application filed February 4, 1907. Serial No. 355,686.

To all whom it may concern:

Be it known that I, CEDRIC CHIVERS, a subject of His Majesty the King of Great Britain, of Bath, Somerset, England, have invented a certain new and useful
5 Improved Method of Bookbinding, of which the following is a specification.

This invention relates to improvements in bookbinding and is particularly useful in connection with the re-binding of books and consists of an improved
10 method of attaching a new back and covers to a book without interfering with the existing sewing which secured together the signatures thereof.

Hitherto in the re-binding of books, it has been necessary, after removing the old back and covers, to
15 separate the signatures and re sew them with the resulting disadvantage that in re-assembling the signatures the edges became uneven thus necessitating trimming of the pages and a consequent narrowing of the margins at each operation, a further disadvantage
20 consisting in the weakening of the signatures themselves by the destruction or damage of the original sewing, and by the necessity for pasting loose leaves to their neighbors. These and other disadvantages of existing methods of rebinding are however obviated
25 by the present invention which consists in providing the book, after removing the old covers leaving the signatures and sewing intact, with head and like bands which are separately sewed to the book and form an additional means of securing the back and covers to
30 the book.

The invention will be readily understood by referring to the accompanying drawings in which:—

Figure 1 is a perspective view of a book prepared in accordance with the present invention and ready
35 to be replaced in the back and covers. Fig. 2 is an elevation of one end of the back of the book signatures showing one of the improved head or like bands and sewing, to a larger scale, and Fig. 3 is a plan view thereof.

40 The signatures *a* of the book with the original stitches *b* (Fig. 1) securing them together, intact, are provided top and bottom with a headband *c* of any suitable material, but preferably of thin leather, secured to the backs of the assembled signatures first by gluing
45 or pasting and finally by stitches *d*. The stitches *d* are preferably formed with a continuous thread from end signature to end signature, and in such a manner that, as shown in the drawings, the stitch passes out of one signature through the leather or like head band
50 and into the next, each succeeding stitch being preferably passed or looped through the preceding stitch as at *e*, at the top of the headband *c*, until the end signature of the book is reached when the thread is fastened in any convenient manner to secure the stitches.

55 When the stitching of the head or like band is com-

plete an overlapping end or flap *f* is left loose and adjacent to each end signature. These flaps or ends *f* are then pasted or otherwise secured to the end papers which are then attached to the covers of the book in the usual way, or the ends *f* may themselves be at-
60 tached to the covers of the book after the manner of the well known tapes, and form an addition to any of the ordinary systems of binding which are further employed to secure the book in the cover.

Although it is not intended to confine the invention
65 to any particular method of stitching the head band to the signatures, the method shown in the drawings provides a simple convenient and reliable fastening and consists in first fastening, by means of a knot or otherwise, the thread preferably between the middle sheets
70 of one end signature and located at or about the end stitch *b'* (Fig. 1) of the original stitching of the book. The thread is then passed through the back of the end signature and the overlying head band *c* which has been previously placed in position, up to the edge of
75 the signature over to the inside and down to its original starting place when it is once more passed, as before, through from the inside to the back and up again, also as before, to the top edge still of the end signature of
80 the book when the thread is preferably looped through the first turn, as at *e'* and carried down between the middle sheets of the next or second signature and as before passed through from the inside to the back; up
85 to the top edge of the second signature, looped through as at *e* and over into the next or third signature, and so on until the other end signature is reached when the finishing or fastening of the thread may be performed in any suitable way, for instance after the fashion described with reference to the end signature at the commencement of the operation two turns being taken
90 through each end signature for additional strength and security. It is also preferable, in the case of the head band *c*, to fold the outer edge over upon itself so that when applied to the signatures the body portion proper of the head band will be interposed between the signa-
95 tures and the turned over portion as shown at *c'*, Fig. 2. It may be immaterial, however, whether or not the turned over portion *c'* is folded as described or folded in the opposite direction so that when applied to the signatures the turned over portion may be interposed
100 between the signatures and the body portion proper of the band. In either construction the folded-over portion prevents the presentation of a raw edge over which to turn the stitches and also serves to increase the wearing properties of the fastening.

105 Where the original sewing of the book has become so weakened as to necessitate further or additional strengthening, a like band may be similarly secured in the center of the back and between the above described head bands.

Headbands are in themselves, of course well known and as such do not form part of the invention, but hitherto such headband, where it has comprised a roll or strip of vellum or the like, has been attached in such a manner as in no way to strengthen the sewing or binding of the book and has formed a part of the original binding. In the present instance such head or like band is a separate attachment and forms a means of attachment and of strengthening the rebinding of the book.

What I claim and desire to secure by Letters Patent of the United States is:—

1. The method of rebinding a book which consists in using in the operation the signatures as initially secured together and in securing a band to said signatures by stitching independent of the initial securing means for said signatures, substantially as described.

2. The method of rebinding a book which consists in employing in the operation the signatures as initially stitched together, and in securing a band to said signatures by stitching, passing from one signature through said band to another signature, independent of the initial stitching securing the signatures together, substantially as described.

3. The method of rebinding a book which consists in employing in the operation the signatures as initially stitched together and in securing a band to said signatures by a continuous thread passing from one end signature and through the intermediate signatures to the other end signature and passing through said band at the position of each signature, said continuous thread being independent of the initial stitching securing the signatures together, substantially as described.

4. In bookbinding, the method consisting in securing together the ends of the signatures by stitching passing over the end of each signature and through each signature at a distance from the end of said signature, substantially as described.

5. In bookbinding, the method consisting in securing together the ends of the signatures by stitching passing over the end of each signature and passing underneath the pre-

ceding stitch to form a connection therewith and also passing through each signature at a distance from the end of said signature, substantially as described.

6. In binding a book, the method consisting in affixing a band to the signatures and securing said signatures together by stitching extending transversely of said signatures and passing over the outer edge of said band and each signature, and also passing through each signature and through said band at a distance from the said end of said signature, substantially as described.

7. In binding a book, the method consisting in affixing a band to the signatures and securing said signatures together by stitches extending transversely of said signatures and passing over the outer edge of said band and each signature, and also passing through each signature and through said band at a position distant from the said end of said signature, substantially as described.

8. The method of rebinding which consists in selecting the signatures of a book already initially stitched together, and then in adhesively securing a band to said signatures and further securing said band to said signatures by stitching passing through each of said signatures and also through said band at the position of each of said signatures, said stitching being independent of the initial stitching securing the signatures together, substantially as described.

9. The method of rebinding a book which consists in employing its signatures as initially stitched together, and then in securing a band to said signatures by stitches, independent of the stitching initially securing the said signatures together, each of said stitches crossing the preceding stitch, substantially as described.

10. In bookbinding, the method which consists in securing a band to the signatures of the book by longitudinally disposed stitching passing over the top edges of each signature and passing through each of said signatures and said band at a position distant from the said edge thereof, substantially as described.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

CEDRIC CHIVERS.

Witnesses:

JAMES SARGENT SMITH,

LEURS DAVEY CLITHEROW THOMAS.