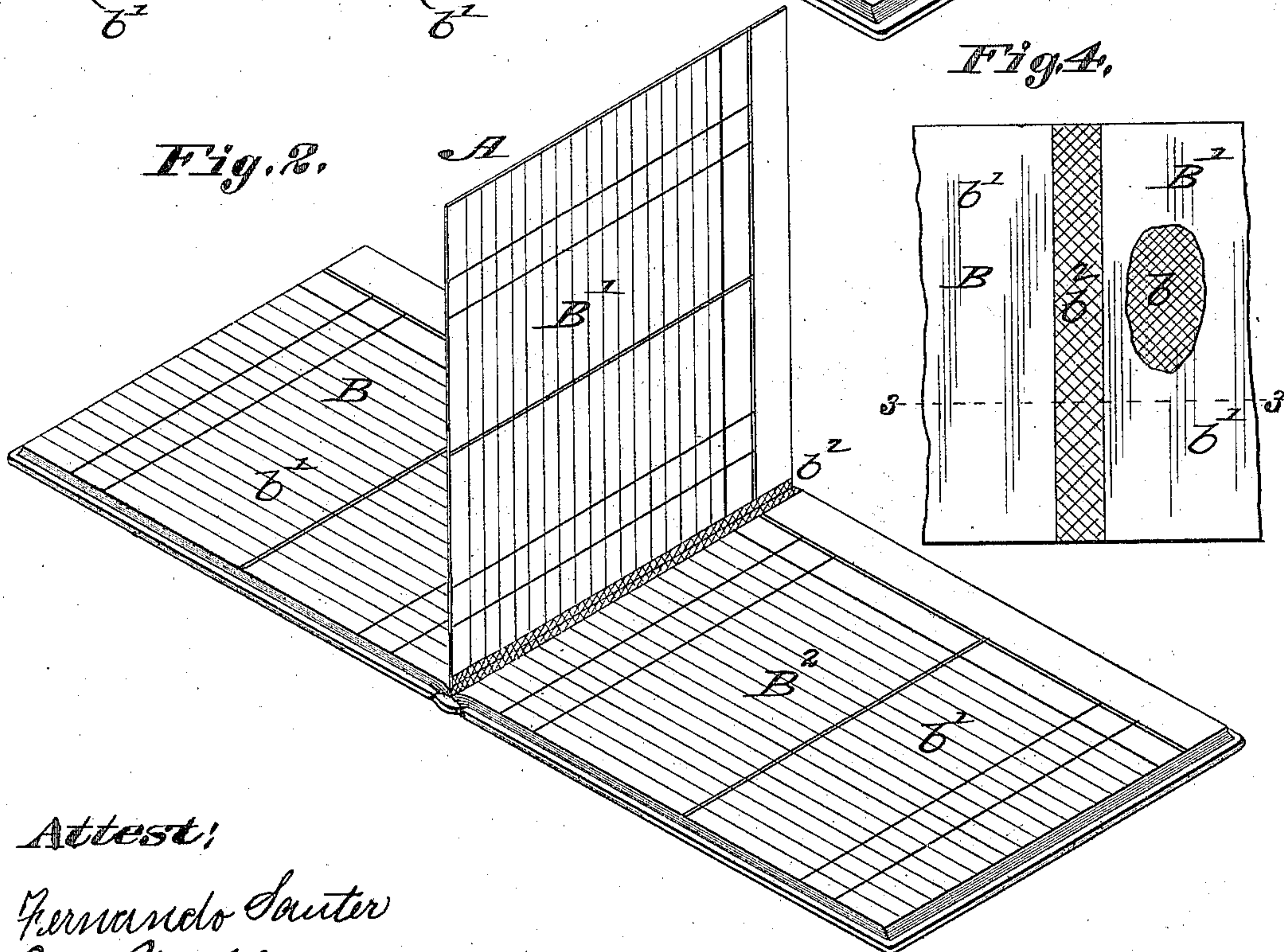
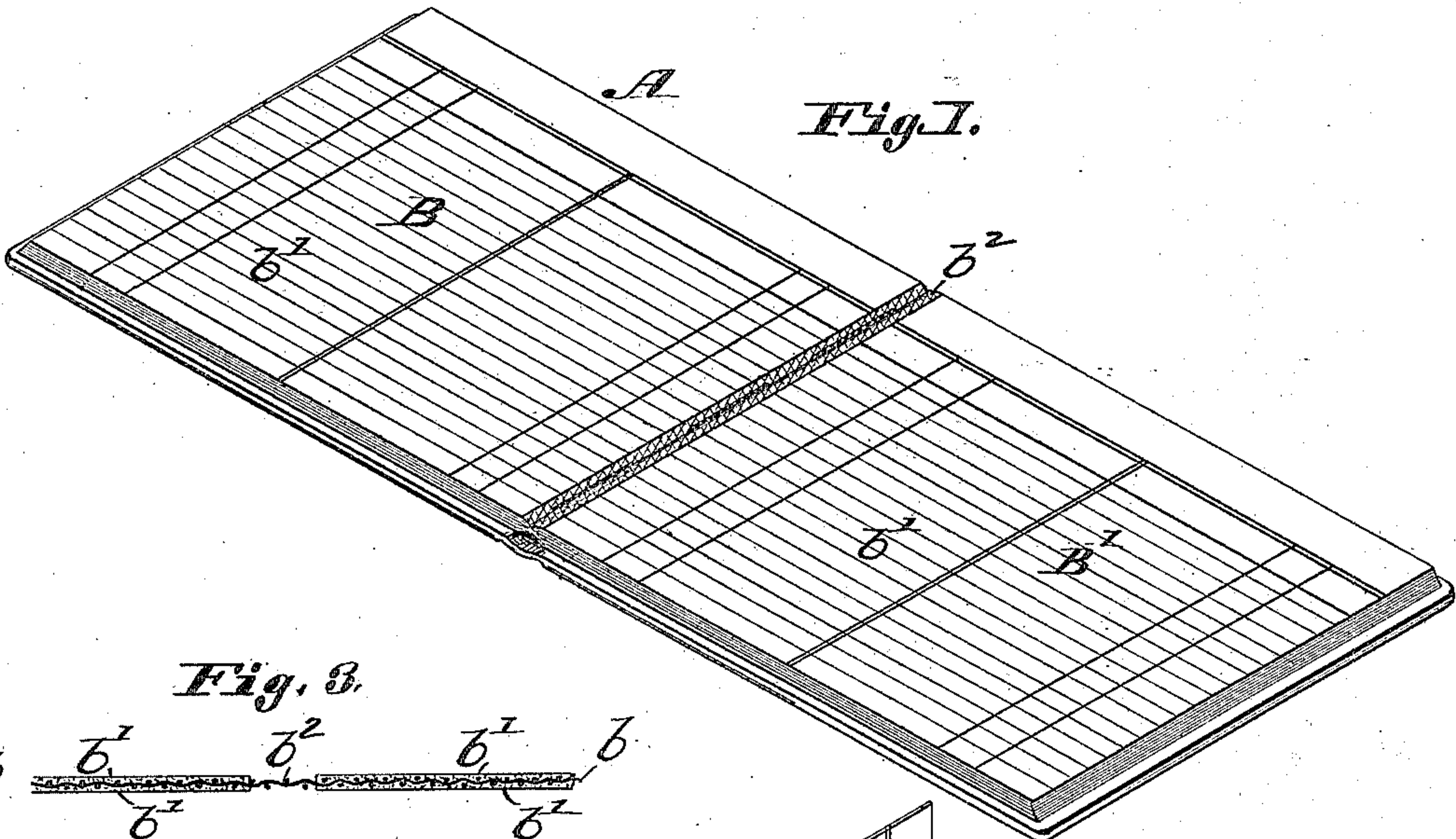


(No Model.)

W. W. BREWER.
BOOK.

No. 309,190.

Patented Dec. 16, 1884.



Attest:

Fernando Sauter
J. W. Riddle

Inventor:

W. W. Brewer
Paul Bakewell,
Att'y.

UNITED STATES PATENT OFFICE.

WILLIAM W. BREWER, OF ST. LOUIS, MISSOURI.

BOOK.

SPECIFICATION forming part of Letters Patent No. 309,190, dated December 16, 1884.

Application filed April 18, 1884. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM W. BREWER, of St. Louis, Missouri, have made a new and useful Improvement in Books, of which the following is a full, clear, and exact description, reference being had to the annexed drawings, making part of this specification, in which—

Figure 1 is a view in perspective of the improved book opened; Fig. 2, another view in perspective of the book, one of the leaves being upturned; Fig. 3, a section on the line 3 3 of Fig. 4, and Fig. 4 a plan of the central portion of one of the double sheets used in forming the leaves of the book.

The same letters of reference denote the same parts.

The present invention is applicable to books of various descriptions. It is, however, especially adapted to record-books. It relates to the construction of the leaves of the book. By means of it the leaves are strengthened and made more durable. They are also stiffened, thereby enabling leaves of large size to be more readily turned over. The leaves of the book can also be bound to better advantage.

It consists in making the leaves in three layers, the central layer of textile fabric and the two outer layers of paper, and the invention is carried out by extending the textile fabric beyond the paper at the inner end of the leaf for the purpose of employing such extension in binding the leaves together in the book, and the preferable mode which I adopt is to make the leaves in sets of twos—that is, the textile fabric is extended in length equal to the width of two leaves, plus an intermediate portion between the papered portions of the fabric, which intermediate portion is the means for attaching the leaves in binding, and which also serves as a flexible hinge for the leaves.

A represents the improved book.

B B' B² represent its leaves. The textile fabric is represented at *b*, and the paper, which is applied to both sides of the fabric, is shown at *b' b'*. The paper *b' b'* is pasted or cemented to the fabric *b*, and the result is a leaf which is not only very strong and very durable, but

also one having considerable body, so that the user of the book can very readily turn over its leaves by means of force applied to any part thereof, and even when applied to a point in the immediate vicinity of the inner edge of the leaf. The advantages thus named will be recognized by any one accustomed to using record-books, for it is not only highly desirable that the leaves of such books should be able to stand a large amount of wear and tear, but also that they should be made with sufficient stiffness and body to enable the user to turn them over by applying his hand to any part of the leaf. The leaves of record-books are much larger than those of ordinary books, and if they are made simply of paper they are liable to be torn unless lifted at their outer edges; but in the present instance force can be applied to any part of the leaf in turning it over. At the same time by extending the fabric at the inner edge of the leaf a flexible hinge is provided for connecting the leaf proper with the binding, and such extension also is a great convenience in binding; and, further, by extending the fabric, as shown at *b²*, Figs. 1, 3, 4, so as to connect the two leaves B B', the leaves can be more readily bound into the book.

I claim—

1. A book, A, whose leaves B B' are made in three layers, the central layer, *b*, of textile fabric, and the two outer layers, *b' b'*, of paper, said outer layers being cemented to the textile fabric, and the textile fabric being extended beyond the paper at the inner end of the leaf, substantially as and for the purposes described.

2. A book, A, whose leaves are made in three layers, the central layer of textile fabric and the two outer layers of paper, and the textile fabric being extended at *b²* to connect the leaves B B', as and for the purposes described.

In testimony whereof I have affixed my signature, in presence of two witnesses, this 31st day of March, 1884.

WILLIAM W. BREWER.

Witnesses:

PAUL BAKEWELL,
FERNANDO SAUTER.