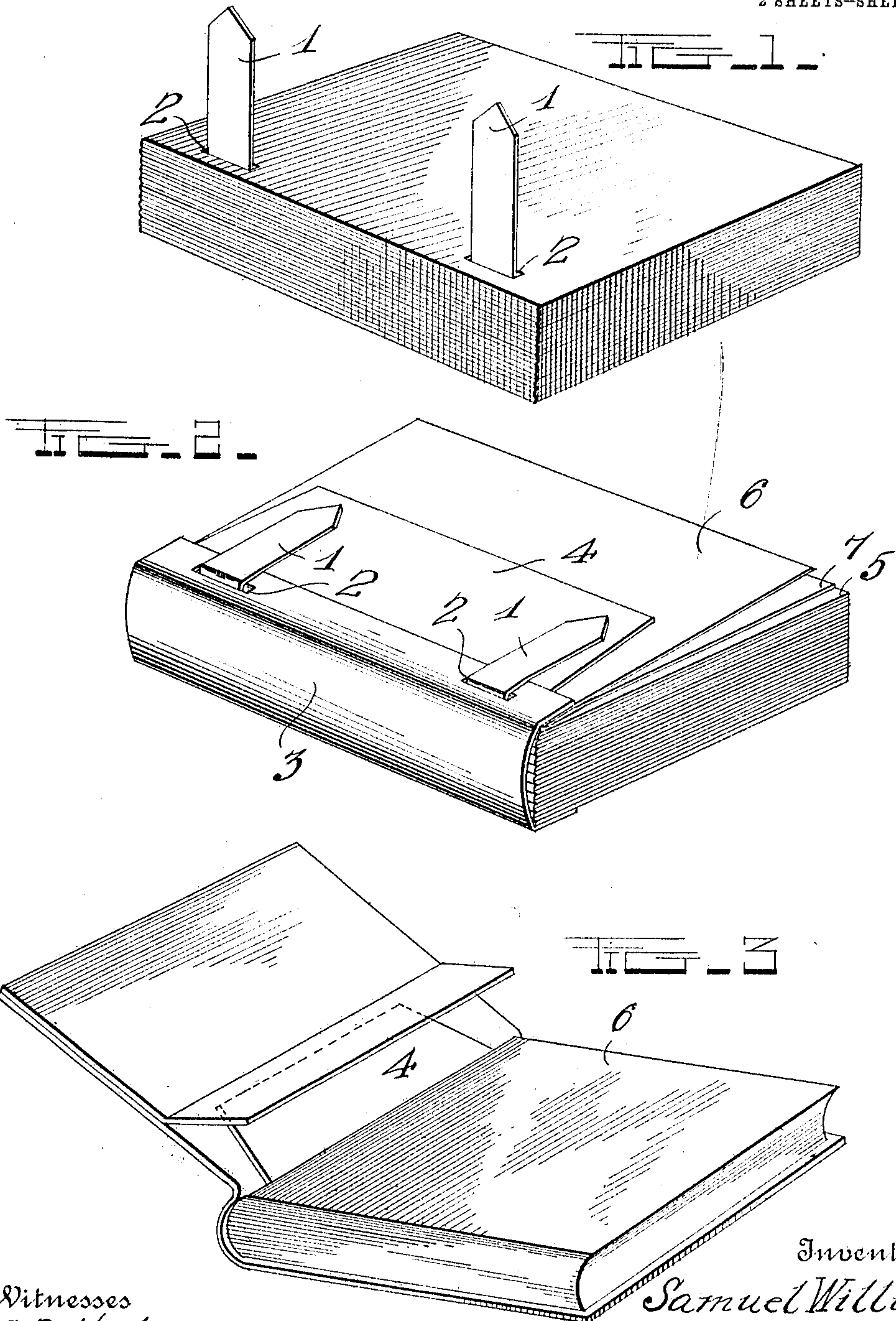


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S. WILLIAMS.
BINDING FOR BOOKS.
APPLICATION FILED OCT. 7, 1910.

Patented Aug. 1, 1911.

2 SHEETS—SHEET 1.



Witnesses
C.R. Hardy
O.B. Hopkins

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Attorneys

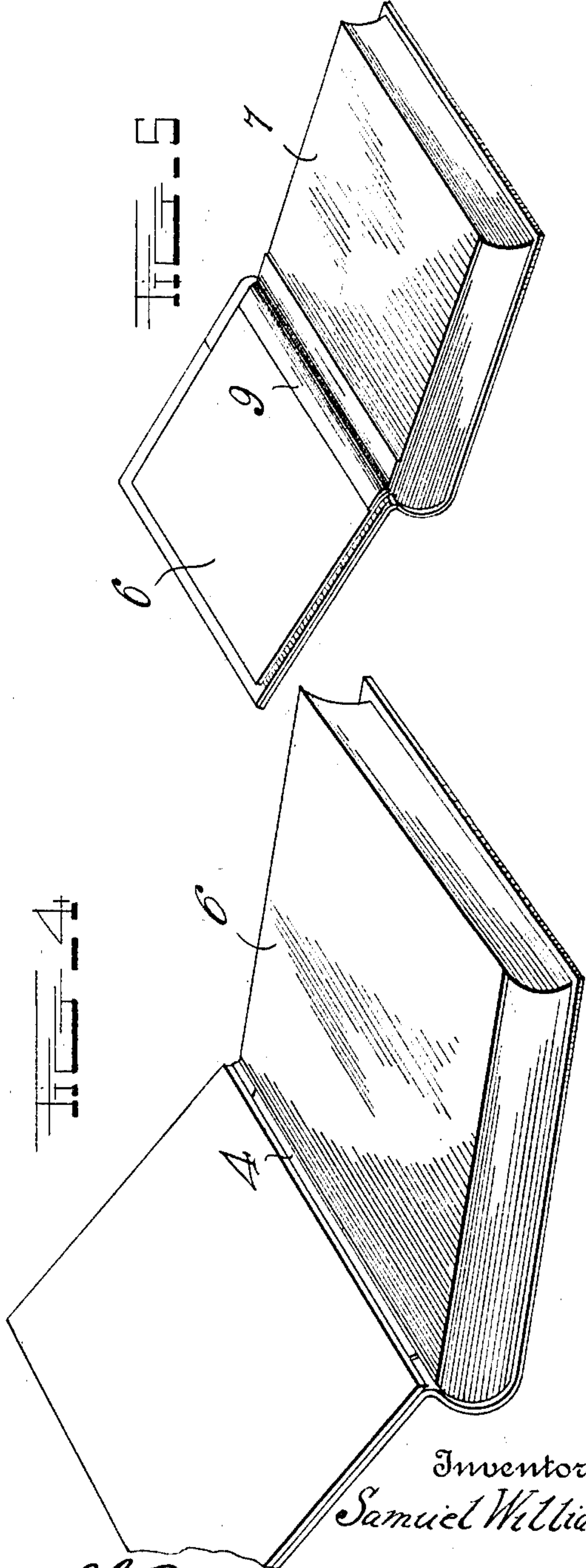
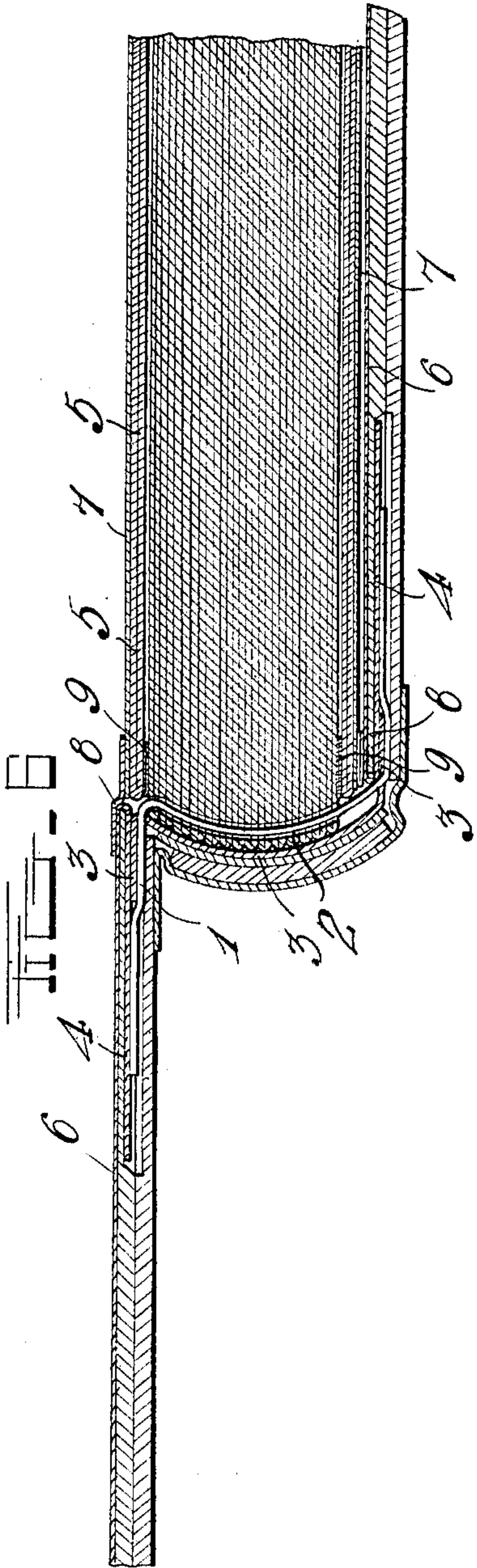
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UNITED STATES PATENT OFFICE.

SAMUEL WILLIAMS, OF ATLANTIC, MASSACHUSETTS.

BINDING FOR BOOKS

999,285.

Specification of Letters Patent.

Patented Aug. 1, 1911.

Application filed October 7, 1910. Serial No. 585,812

To all whom it may concern:

Be it known that I, SAMUEL WILLIAMS, a citizen of the United States, residing at Atlantic, in the county of Norfolk and State of Massachusetts, have invented certain new and useful Improvements in Bindings for Books; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to improvements in book bindings.

One object of the invention is to provide an improved means for temporarily binding the leaves of a book together in such manner as to readily permit the insertion of additional leaves whereby when all of the leaves desired have been inserted they may be permanently secured and bound together.

Another object is to provide a binding of this character which will be simple, strong and durable and which when completed to form a permanent binding will present a neat and attractive appearance.

With these and other objects in view the invention consists of certain novel features of construction, combination and arrangement of parts as will be more fully described and particularly pointed out in the appended claims.

In the accompanying drawings: Figure 1 is a perspective view of a stack of leaves temporarily bound together by means of my improved bindings; Fig. 2 is a similar view showing the first step in connection with the permanent fastening or binding of the leaves; Fig. 3 is a similar view of the next step in the permanent binding operation; Fig. 4 is a similar view showing the next step; and, Fig. 5 is a similar view showing the last step in the operation and illustrating the appearance of the book when the binding is completed; Fig. 6 is a cross sectional view on an enlarged scale through the completely bound book.

In carrying out the invention I provide a series of binding strips 1, which may be of any suitable form but which are preferably in the form of tapes constructed of vellum, pigs-skin or other strong durable material. The leaves of the book are provided near their inner ends with a series of slots 2 which correspond in length to the width of the strips and are arranged at positions where the strips are to be applied.

In assembling the leaves the strips 1 are inserted through the aligned passages or slots 2 in the strips and the pages are thus held together without stitching or other fastening. The opposite ends of the binding strips when thus engaged with the leaves are adapted to project beyond the opposite sides of the stack of leaves a sufficient distance to fold over the outer sides of the stack and thus temporarily hold the leaves together, at the same time permitting any additional leaves to be added or inserted. After the desired number of additional leaves have thus been inserted or engaged with the strips, binding sections and a backing sheet 3 are applied to the opposite sides and back of the stack of leaves, said backing piece being provided with slots to receive the opposite ends of the binding strips as clearly shown in Fig. 2 of the drawing.

The binding sections comprise outer fastening sheets 4 of stiff paper, an inner fly leaf 5, an outer fly leaf 6 and a finishing leaf 7, said outer fly leaf 6 and finishing leaf 7 being preferably marbled or otherwise decorated on their adjacent surfaces and secured together at their inner edges by a strip of fabric or thin leather 8. The outer sheet 4 and the outer fly leaf 6 are made from a single sheet folded transversely, as shown in Fig. 6. The fly leaf 5 is formed of a sheet folded transversely, one member being pasted to the inner face of the finishing leaf 7, and the other member of said leaf 5 is preferably secured at its inner edge to the first leaf of the book by a narrow strip of fabric 9. When the binding sections have thus been arranged, the side edges of the backing sheet 3 and the ends of the binding strips or tapes 1 are pasted down into engagement with the outer side of the sheet 4 after which a part of the outer portion or free end of the leaf 4 may be cut off as shown in Fig. 3 of the drawing. After the backing strip and ends of the binding tapes are thus secured to the binding sections the stack of leaves is placed in the covers of the book and the stubs or ends of the fastening sheets 4 together with the ends of the binding strips 1 and edges of the backing sheet 3 are inserted between the inner and outer boards of the cover as shown in Fig. 3 of the drawing. After these parts have thus been inserted the boards of the cover are closed and securely fastened by gluing or other suitable means thus securely fasten-

ing the leaves to the cover. After the boards of the cover have thus been closed and sealed as shown in Fig. 4 the finishing sheets 6 are pasted down onto the inner sides or boards 5 of the cover as shown in Fig. 5 of the drawing thus completing the permanent binding of the book.

From the foregoing description taken in connection with the accompanying drawings, the construction and operation of the invention will be readily understood without requiring a more extended explanation.

Various changes in the form, proportion and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of the invention as defined in the appended claims.

Having thus described my invention what I claim is:

1. In a binding for books, a series of binding strips adapted to be engaged with the leaves of the book, said leaves having formed therein a series of slots adapted to receive said strips whereby the leaves are temporarily bound together, binding sections adapted to be applied to the opposite sides of the stack of leaves when the latter are to be permanently bound together, and means whereby said binding sections are securely fastened in the covers of the book.

2. In a book binding, a series of binding strips adapted to be engaged with the leaves of the book, said leaves being provided with slots to receive said strips whereby said leaves and additional leaves may be temporarily bound together, binding sections arranged on the opposite sides of the stack of leaves, each of said sections comprising an outer fastening leaf, an outer fly leaf formed integral with said fastening leaf, an inner fly leaf and a finishing leaf, a flexible strip connecting the inner edges of said outer fly leaf and said finishing leaf, a backing sheet arranged over the back edges of the leaves

and having its edges secured to the outer fastening leaves of said binding sections, said backing sheet having formed therein slots to receive the binding strips, and means to secure the outer fastening sheets, edges of the backing sheet, and the ends of said binding strips to the covers of the book.

3. In a book binding, a series of binding strips adapted to be engaged with the leaves of the book, said leaves being provided with slots adapted to receive said strips whereby said leaves are temporarily bound together, binding sections arranged on the opposite sides of the stack of leaves, each of said sections comprising an outer fastening leaf, an outer fly leaf connected with said fastening leaf, an inner fly leaf and a finishing leaf arranged between said inner and outer fly leaves, a flexible strip secured to the adjacent surfaces of said outer fly and finishing leaves whereby they are fastened together at their inner edges, a backing sheet arranged over the back edges of the leaves and having its edges secured to the outer fastening leaves of said binding sections, said backing sheet having formed therein slots to receive the binding strips, a cover having its sides formed of a plurality of boards adapted to receive between the inner edges thereof the outer fastening leaves, edges of the backing sheet and ends of the binding strips whereby said parts are securely fastened to the covers, the inner faces of said covers being secured to the outer fly leaves of the binding sections, said leaves being pasted down into close engagement with the inner sides of the cover.

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

SAMUEL WILLIAMS.

Witnesses:

DAVID A. SMITH,

CHARLES F. SMITH.