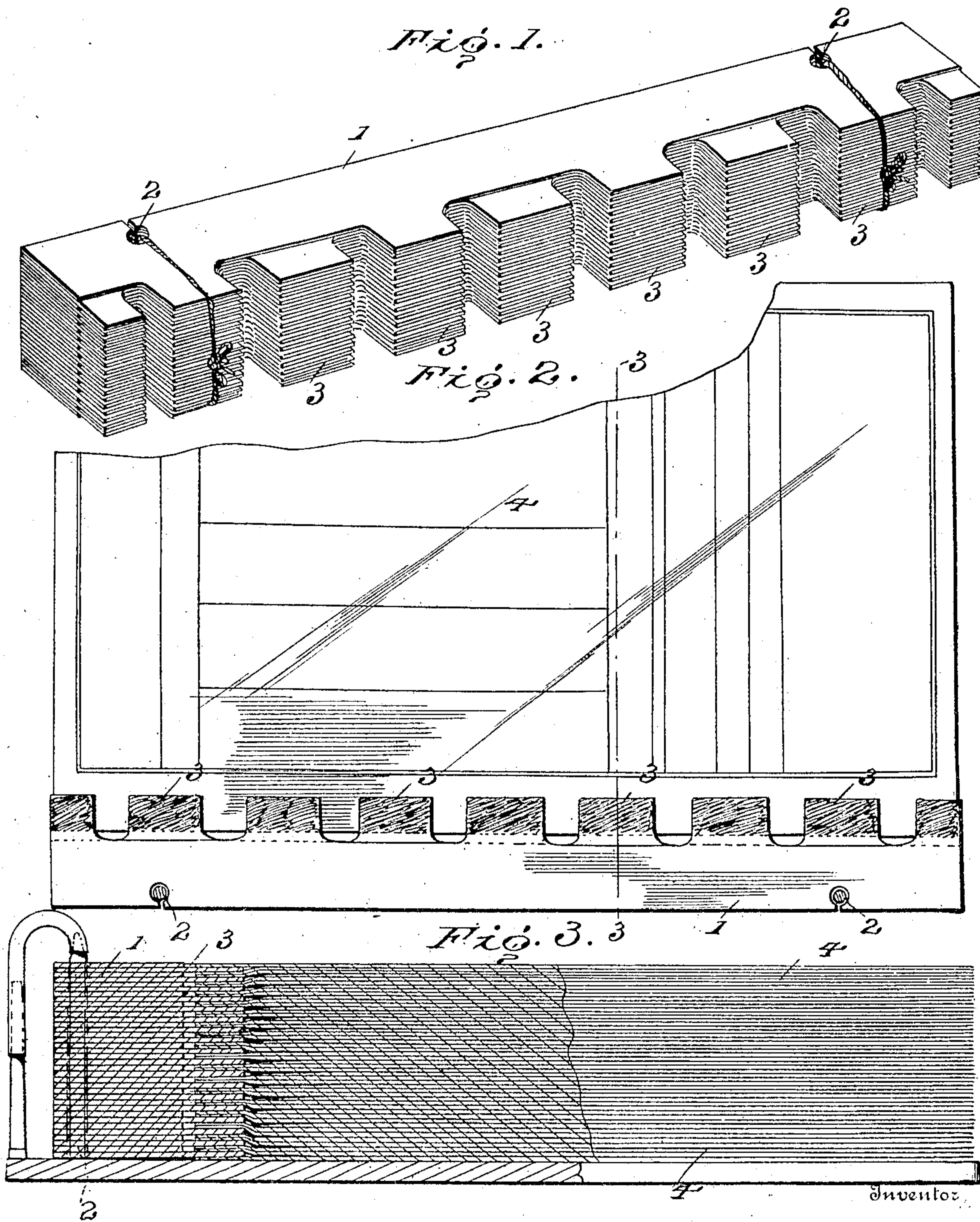


No. 882,429.

PATENTED MAR. 17, 1908.

I. SHULTES.  
LOOSE LEAF BINDER.  
APPLICATION FILED JULY 22, 1907.



I. Shultes.

Witnesses

W. P. Woodson  
J. J. J. J.

By

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# UNITED STATES PATENT OFFICE.

ISAAC SHULTES, OF MARTIN, MICHIGAN.

## LOOSE-LEAF BINDER.

No. 882,429.

Specification of Letters Patent.

Patented March 17, 1908.

Application filed July 22, 1907. Serial No. 384,950.

*To all whom it may concern:*

Be it known that I, ISAAC SHULTES, citizen of the United States, residing at Martin, in the county of Allegan and State of Michigan, have invented certain new and useful Improvements in Loose-Leaf Binders, of which the following is a specification.

In marginal binders of that type wherein the various sheets or leaves being bound together have their edge portions secured to binding strips it is customary to cause the leaves to overlap the edges of the binding strips and to secure the overlapping portions by some suitable adhesive material. This manner of binding is for many reasons objectionable since the overlapping portions of the leaves and binding strips coming one upon the other cause one end of the book to assume a thickness much greater than the opposite end and the book is thereby rendered unsightly in appearance and inconvenient to handle.

The object of the present invention has been to overcome this objection by a peculiar construction of binding strips in which the said strips are formed with laterally projecting tongues to which the leaves are secured, the tongues of each of the binding strips being arranged alternately with respect to the tongues of the next adjacent binding strip.

For a full description of the invention and the merits thereof and also to acquire a knowledge of the details of construction and the means for effecting the result, reference is to be had to the following description and accompanying drawings, in which:

Figure 1 is a perspective view of a number of the binding strips held together in stub form. Fig. 2 is a plan view of a book in which the leaves are secured to the binding strips, several of the upper leaves being removed. Fig. 3 is a transverse sectional view on the line 3—3 of Fig. 2.

Corresponding and like parts are referred to

in the following description and indicated in all the views of the drawings by the same reference characters.

Referring to the drawings the numerals 1 designate the binding strips which may either be provided with the notches 2 for engagement with a loose leaf binder of any approved construction or may be furnished in stub form already bound together. Projecting laterally from one of the longitudinal edges of each of the binding strips 1 is a plurality of tongues 3 designed to overlap the edges of the sheets 4 being bound together and to be secured to the same by any suitable means such as by an adhesive. It will be observed however that the tongues 3 upon each of the strips are arranged alternately with respect to the tongues upon the next adjacent strips whereby the tongues of each strip are designed to fit within the spaces between the tongues upon the next strip. It will be seen that the overlapping portions of the tongues 3 and sheets 4 do not accumulate upon each other and cause one end of the finished book to be thicker than the opposite end since where there is a double thickness upon one of the leaves there is only a single thickness upon the two adjacent leaves.

Having thus described the invention, what is claimed as new is:

A binding device comprising a plurality of strips provided with laterally projecting tongues, the tongues upon each strip being arranged alternately with respect to the tongues upon the next adjacent strips so as to be received within the spaces between the same, the leaves to be bound being designed to be secured to the said tongues.

In testimony whereof I affix my signature in presence of two witnesses.

ISAAC SHULTES. [L. s.]

Witnesses:

DANIEL D. HARRIS,  
LEE W. SHEPHERD.