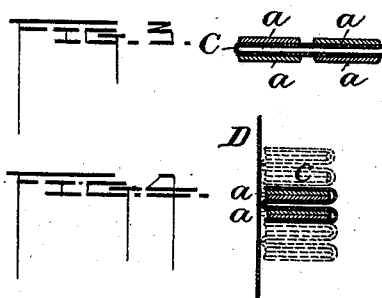
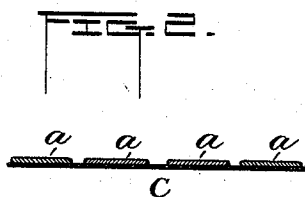
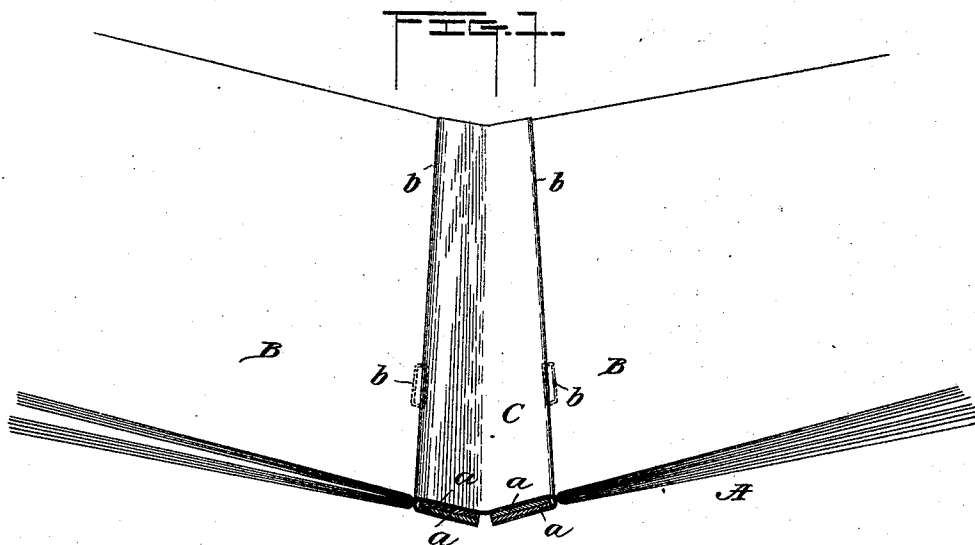


(No Model.)

H. H. & F. H. HOFFMANN.  
BLANK BOOK.

No. 487,014

Patented Nov. 29, 1892.



Witnesses

*L. A. Connor Jr.*  
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Inventors:

*Hermann H. Hoffmann*  
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# UNITED STATES PATENT OFFICE.

HERMANN H. HOFFMANN AND FRANCIS HERMAN HOFFMANN, OF CHICAGO, ILLINOIS.

## BLANK-BOOK.

SPECIFICATION forming part of Letters Patent No. 487,014, dated November 29, 1892

Application filed August 18, 1892. Serial No. 443,382. (No model.)

*To all whom it may concern:*

Be it known that we, HERMANN H. HOFFMANN and FRANCIS HERMAN HOFFMANN, citizens of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Blank-Books, of which the following is a description, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

Our invention relates to certain new and useful improvements in books, the same being especially adapted for blank-books, and particularly to the manner of attaching the leaves or pages to the backing, so that when the book is opened the pages will lie perfectly flat.

In a patent granted to us December 1, 1891, No. 464,325, we have shown, described, and claimed a blank-book comprising a number of sections or signatures, each stitched separately through the central fold, combined with a suitable hinge or guard secured to the backing and having a suitable filling-piece, said hinge being attached on both exterior sides of the section at the fold, and we have also included in said patent a hinge or guard comprising a strip or strips of fabric having end pieces or parts, a filling-piece secured to said strip or strips, said end pieces being adapted to receive between them the sections or signatures. It has been found in practice that books constructed in accordance with said patent, while very strong and durable and less expensive than the majority of books on the market, cost rather more than some manufacturers care to expend; and it is the object of the present invention to make a book which will cost very little, if any, more than the common old-style books and yet be as strong and durable as the hinge or guard books, which cost much more to manufacture.

Our invention therefore consists, primarily, of a book comprising sections or signatures and a series of stubs, each composed of a strip folded once in the center and then each half folded, said sections or signatures being secured to the side folds in said strip.

It consists, secondly, of a guard or hinge for blank-books, comprising a strip of canvas or like material folded with one central and two

side folds, with filling-strips secured between the folds.

It consists, thirdly, of a book comprising sections or signatures, a series of stubs, each composed of a strip folded first in the center and then each half folded once, and filling-strips secured to said strip between the folds, said sections or signatures being secured to the folds in said strip.

There is a book in which is shown a sewing-band having strips secured thereto at suitable intervals, said sewing-band being formed like an accordion-belt. The sewing of all the sections of the book on this one band necessitates all sections to be carried along on the sewing-machine until the last section is sewed, and this, to say the least, is a very tedious and troublesome operation. Then, again, to sew this endless band, with all the sections sewed thereto, to the parchment is another awkward operation, for, as the sewing is commenced at the bottom, it necessitates the employment of extra help or a contrivance to hold up the balance of the sections for the sewer. In our invention we do away with this extra expense and make a stub which holds two sections compact on it, filling up the spaces of these stubs with strips of boards or other material to the thickness of the two sections, thereby enabling us to sew and stitch with great convenience.

Our invention is illustrated in the accompanying drawings, in which Figure 1 is a perspective view of a portion of a book made in accordance with our invention. Fig. 2 shows the strip before folding; Fig. 3 shows it when half-folded, and Fig. 4 when in condition for use.

In the drawings, A represents a portion of a flat opening book constructed in accordance with our invention and composed of the sections or signatures B.

C is a strip of canvas, muslin, or other suitable fabric of any desired length and width. After cutting these strips the desired length we fasten four filling-strips *a a a a* to one side of the fabric and then fold the latter with the fillers in four equal parts, the filling-strips lying between the folds, as shown in the drawings. The first fold in the strip is then laid

upon the saddle of a wire-stitching machine with one of the sections or signatures upon it, and a number of staples *b* are then driven through the section or fold, thereby securing  
 5 the leaves of the section together and to the guard, the staples being clinched on the inside of the fold of the strip, the head of said staples being upon the section. The other part of the guard is then turned to the saddle and  
 10 the second section stapled thereto in the same manner as the first, so that two sections are fastened to one stub. It will of course be understood that these parts may be secured together with thread in the well-known man-  
 15 ner; but more time would be consumed in the operation. After the sections are secured to the stubs or guards the filling-pieces are secured together, if desired, thereby holding the ends of the staples in place, and, if necessary  
 20 to make up the thickness of the section, two or more filling-pieces may be inserted between the outside and inside pieces on both sides of the guards, and the stubs are then secured in the usual way by sewing through the  
 25 central fold of the strip to the sewing bands or parchments D, the binding being then completed in the usual manner.

Having thus described our invention, what we claim as new, and desire to secure by Letters Patent, is—  
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1. A blank-book comprising sections or signatures, a series of stubs, each composed of a

strip folded in the center and then each half folded, said sections or signatures being secured to the side folds, substantially as described. 35

2. A guard or hinge for blank-books, comprising a strip of canvas or like material folded with one central and two side folds, with filling-strips secured between the folds, substantially as described. 40

3. A blank-book comprising sections or signatures, a series of stubs, each stub composed of a strip folded once in the center and then each half folded, and filling-strips secured to said folded strip between the folds, said sections or signatures being secured to the folds in said strip, substantially as described. 45

4. A blank-book comprising sections or signatures, a series of stubs, each composed of a strip of canvas or other fabric folded with one central and two side folds; filling-strips secured to the fabric between the folds and on the under side of said fabric, and means for securing the leaves of the section or signature together and to the side folds, substantially as described. 55

In witness whereof we affix our signatures in presence of two witnesses.

HERMANN H. HOFFMANN.

FRANCIS HERMAN HOFFMANN.

Witnesses:

E. F. GRUMWART,

EDWARD FISCHER.