

W. P. PITT.  
 BOOKBINDING.  
 APPLICATION FILED NOV. 18, 1916.

1,299,776.

Patented Apr. 8, 1919.

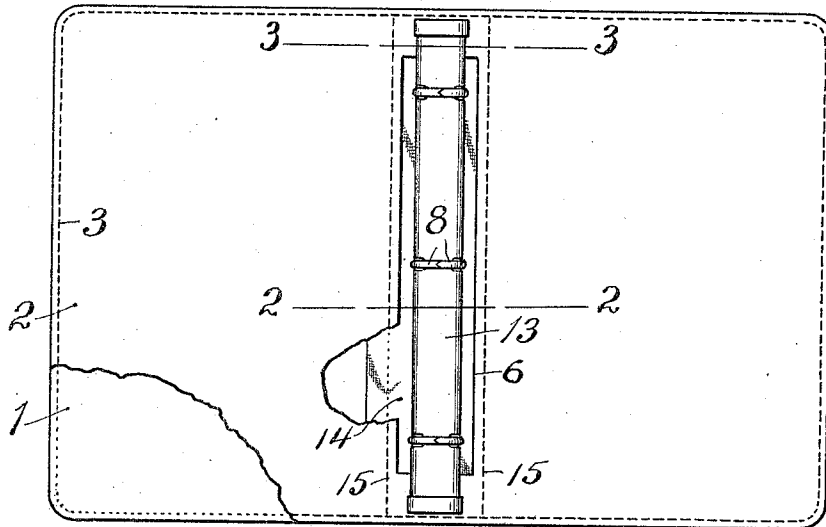


Fig 1

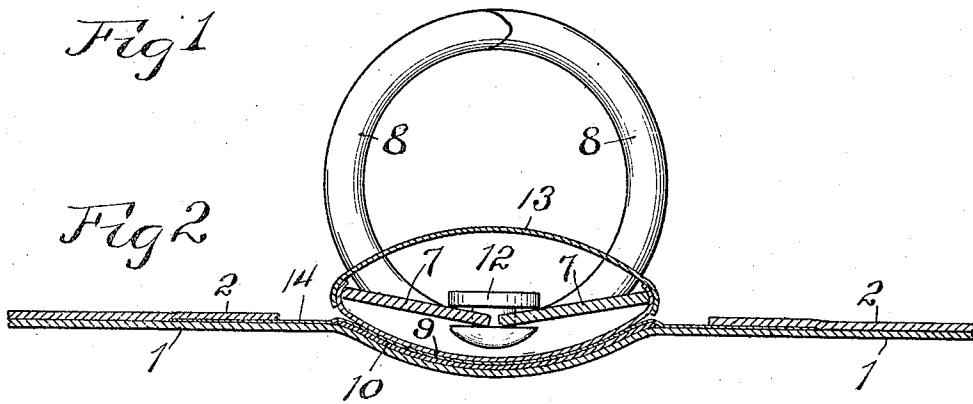


Fig 2

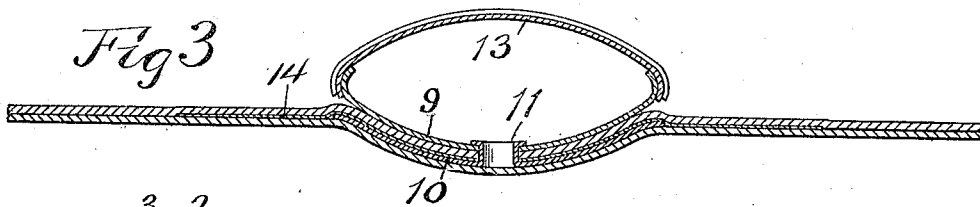


Fig 3

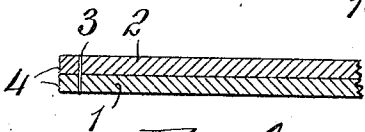


Fig 4



Fig 5

WITNESS:

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# UNITED STATES PATENT OFFICE.

WILLIAM P. PITT, OF KANSAS CITY, MISSOURI, ASSIGNOR TO IRVING-PITT MANUFACTURING COMPANY, OF KANSAS CITY, MISSOURI, A CORPORATION OF MISSOURI.

## BOOKBINDING.

1,299,776.

Specification of Letters Patent.

Patented Apr. 8, 1919.

Application filed November 18, 1916. Serial No. 132,053.

*To all whom it may concern:*

Be it known that I, WILLIAM P. PITT, a citizen of the United States, residing at Kansas City, in the county of Jackson and State of Missouri, have invented a certain new and useful Improvement in Bookbinding, of which the following is a specification.

My invention relates to improvements in book binding.

It is particularly adapted for use in loose leaf books of the ring hook type.

The object of my invention is to provide a binding of the kind described which may be cheaply manufactured, which will be neat and attractive in appearance, which will have very flexible covers that may be rolled or folded without injury, and which will not buckle or warp upon the drying of the glue which fastens the layers of the binding together or upon being exposed to different climatic conditions.

A further object of my invention is to provide a flexible binding which will be capable of being bent at a sharp angle where the covers join the back, whereby the covers when closed will not bulge outwardly but will lie flat, thus conserving space and effecting neatness in appearance.

Still another object of my invention is to provide a flexible binding with novel means for securing the same to the metal parts of a loose leaf holding mechanism.

A further object of my invention is to provide a flexible binding comprising superposed layers having flush edges which are smoothed or surfaced to prevent raveling or fraying of the edges. The novel features of my invention are hereinafter fully described and claimed.

In the accompanying drawing, which illustrates the preferred embodiment of my invention as applied to a loose leaf book,

Figure 1 is a plan view, partly broken away, of the book with the covers shown in the open position.

Fig. 2 is an enlarged cross section on the line 2—2 of Fig. 1.

Fig. 3 is an enlarged cross section on the line 3—3 of Fig. 1.

Fig. 4 is a sectional view of portions of the two sheets as they appear prior to having their raw edges surfaced.

Fig. 5 is a view similar to Fig. 4, showing the edges of the sheets surfaced, or smoothed.

Similar reference characters designate similar parts in the different views.

1 and 2 designate respectively two sheets, of some suitable flexible material, such as leather or imitation leather, and preferably of like thickness and material, the sheets being fastened together side by side by gluing and by stitching 3, adjacent to their edges, the latter being flush with each other.

After the sheets 1 and 2 have been glued and sewed together, the raw edges thereof as designated by 4 in Fig. 4, are surfaced or smoothed, preferably by means of wax, glue or some other suitable material 5, as shown in Fig. 5.

The sheets 1 and 2 form the back and covers of the book. In order that the covers may be bent sharply at an angle where they join the back, one of the sheets is weakened longitudinally in the two portions where the covers join the back. This may be effected in different ways. In the form of my invention shown in the drawing, the inner sheet 2 is provided in its back portion with a longitudinal slot 6 which extends lengthwise to points adjacent to the end edges of the sheet 2, and which extends laterally across the back to where the back and covers join. By this means, those portions of the sheet 2 which are in longitudinal alinement with the places of joinder between the back and the covers, are weakened, so that the covers when closed will not bulge but will lie flat.

The metal parts of the leaf holding mechanism comprise two hook plates 7, each carrying said metal hooks 8 and having their outer edges pivotally mounted in the flanged edges of a channel spring plate 9, which, as shown in Fig. 3, is secured to a back plate 10 by one or more eyelets 11, or other suitable securing means. Conjoint movement of the hook plates 7 may be effected by a double headed rivet 12, Fig. 2, which engages the adjacent edges of the hook plates. 13 designates a cover plate which may be employed if desired.

The back plate 10 is mounted between the back portions of the sheets 1 and 2. Between the back plate 10 and the spring

plate 9 is a thin flexible strip 14 of suitable material, such as cloth which extends across the slot 6 and between the sheets 1 and 2 to which it may be secured by two longitudinal rows of stitching 15, Fig. 1.

The back plate 10 lies intermediate of the side edges of the slot 6, so as not to interfere with the free flexing of the covers where they join the back of the binders.

By employing two sheets of binding material, the inner side of the binding may have as neat an appearance as the outer side thereof. By employing two sheets of like material and thickness, the covers will not buckle or warp when the glue which connects them dries. Nor will such warping or buckling occur due to changes in climatic conditions. By employing sheets of like thickness, a stiffening middling sheet between the covers may be eliminated. By having the sheets 1 and 2 lying flat against each other and with their edges flush with each other, the sheets being stitched together closely adjacent to the edges, a smooth inner and outer surface to the binding is obtained and the employment of a separate lining for the inner sides of the covers is dispensed with.

I do not limit my invention to the structure shown and described, as modifications within the scope of the appended claims, may be made without departing from the spirit of my invention.

What I claim is:—

1. A book binding comprising two flexible sheets fastened together side by side and forming the covers and back, one of the sheets having longitudinal weakened portions where the back and covers join.

2. A book binding comprising two flexible sheets fastened together side by side and forming the covers and back, the inner sheet having longitudinal weakened portions where the back and covers join.

3. A book binding comprising two flexible sheets fastened together side by side and forming the covers and back, one of the sheets having longitudinal cut through portions where the back and covers join.

4. A book binding comprising two flexible sheets fastened together side by side and forming the covers and back, the inner sheet having longitudinal cut through portions where the back and covers join.

5. A book binding comprising two flexible sheets fastened together side by side and forming the covers and back, one of the sheets having longitudinal cut through portions where the back and covers join which do not extend to the end edges of the sheet.

6. A book binding comprising two flexible sheets fastened together side by side and forming the covers and back, the inner sheet having longitudinal cut through portions where the back and covers join which do not extend to the end edges of the sheet.

7. A book binding comprising two flexible sheets fastened together side by side and forming the covers and back, one of the sheets having in its back portion a longitudinal slot which extends laterally to where the back and covers join.

8. A book binding comprising two flexible sheets fastened together side by side and forming the covers and back, the inner sheet having in its back portion a longitudinal slot which extends laterally to where the back and covers join.

9. A book binding comprising two flexible sheets of like material and thickness fastened together side by side and forming the covers and back, one of the sheets having longitudinal weakened portions where the back and covers join.

10. A book binding comprising two flexible sheets of like material and thickness fastened together side by side and forming the covers and back, the inner sheet having longitudinal weakened portions where the back and covers join.

11. A book binding comprising two flexible sheets of like material and thickness fastened together side by side and forming the covers and back, one of the sheets having longitudinal cut through portions where the back and covers join.

12. A book binding comprising two flexible sheets of like material and thickness fastened together side by side and forming the covers and back, the inner sheet having longitudinal cut through portions where the back and covers join.

13. A book binding comprising two flexible sheets of like material and thickness fastened together side by side and forming the covers and back, one of the sheets having longitudinal cut through portions where the back and covers join which do not extend to the end edges of the sheet.

14. A book binding comprising two flexible sheets of like material and thickness fastened together side by side and forming the covers and back, the inner sheet having longitudinal cut through portions where the back and covers join which do not extend to the end edges of the sheet.

15. A book binding comprising two flexible sheets of like material and thickness fastened together side by side and forming the covers and back, one of the sheets having in its back portion a longitudinal slot which extends laterally to where the back and covers join.

16. A book binding comprising two flexible sheets of like material and thickness fastened together side by side and forming the covers and back, the inner sheet having in its back portion a longitudinal slot which extends laterally to where the back and covers join.

17. A book binding comprising two flexi-

ble sheets fastened together side by side and forming the covers and back, one of the sheets having longitudinal weakened portions where the back and covers join, and a back plate between said sheets and intermediate of said weakened portions.

18. A book binding comprising two flexible sheets fastened together side by side and forming the covers and back, one of the sheets having longitudinal cut through portions where the back and covers join, and a back plate between said sheets and intermediate of said cut through portions.

19. A book binding comprising two flexible sheets fastened together side by side and forming the covers and back, one of the sheets having in its back portion a longitudinal slot which extends laterally to where the back and covers join, and a back plate between said sheets and intermediate of the side edges of said slot.

20. A book binding comprising two flexible sheets fastened together side by side and forming the covers and back, one of the sheets having longitudinal weakened portions where the back and covers join, a flexible strip between said sheets extending across the back and to the outside of said weakened portions, and a back plate between the other sheet and said strip and intermediate of said weakened portions.

21. A book binding comprising two flexible sheets fastened together side by side and forming the covers and back, the inner sheet having longitudinal weakened portions where the back and covers join, a flexible strip between said sheets extending across the back and to the outside of said weakened portions, and a back plate between the outer sheet and said strip and intermediate of said weakened portions.

22. A book binding comprising two flexible sheets fastened together side by side and forming the covers and back, one of the sheets having in its back portion a longitudinal slot which extends laterally to where the back and covers join, a flexible strip between said sheets extending across said slot, and a back plate between said strip and the other sheet and intermediate of the side edges of said slot.

23. A book binding comprising two flexi-

ble sheets fastened together side by side and forming the covers and back, the inner sheet having in its back portion a longitudinal slot which extends laterally to where the back and covers join, a flexible strip between said sheets and extending across said slot, and a back plate between said strip and the outer sheet and intermediate of the side edges of said slot.

24. In a book binding, two flexible sheets fastened together side by side and forming the back and covers, one of the sheets having longitudinal weakened portions where the back and covers join, a back plate intermediate of the two sheets and intermediate of said weakened portions, and leaf holding mechanism attached to said plate at the inner side of the inner sheet.

25. In a book binding, two flexible sheets fastened together side by side and forming the back and covers, one of said sheets having longitudinal cut through portions where the back and covers join, a back plate between said sheets and intermediate of said cut through portions, and leaf holding mechanism attached to said plate at the inner side of the inner sheet.

26. In a book binding, two flexible sheets fastened together side by side and forming the back and covers, one of said sheets having a longitudinal slot in its back portion extending laterally to where the back and covers join, a back plate between said sheets and intermediate of the sides of said slot, and leaf holding mechanism attached to said plate at the inner side of the inner sheet.

27. In a book binding, two flexible sheets fastened together side by side and forming the back and covers, one of said sheets having in its back portion a longitudinal slot extending laterally to where the back and covers join, a flexible strip secured between said sheets and extending across said slot, a back plate between said strip and one of said sheets and intermediate of the sides of said slot, and leaf holding mechanism secured to said plate at the inner side of the inner sheet.

In testimony whereof I have signed my name to this specification.

WILLIAM P. PITT.