Sept. 22, 1925. 1,554,436

C. F. KINT

BINDING FOR BOOKS

Filed April 27, 1922

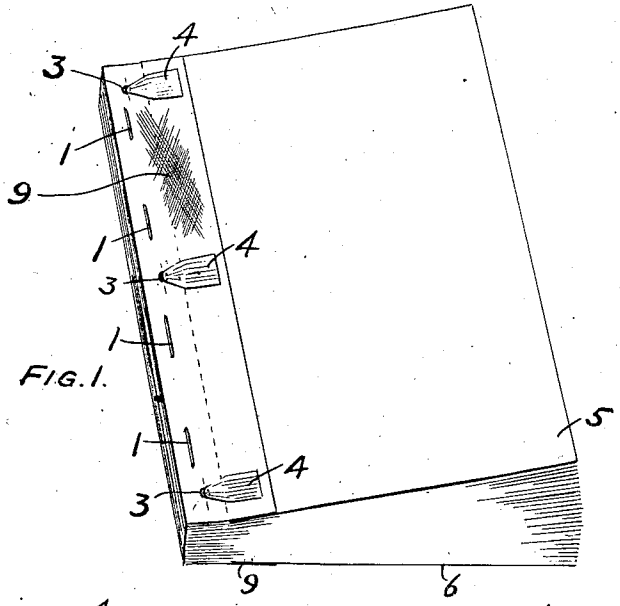


FIG. 1.

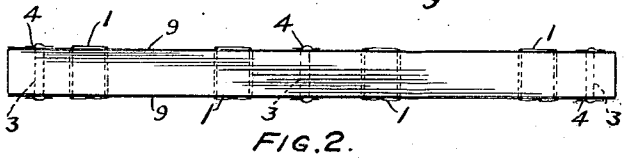


FIG. 2.

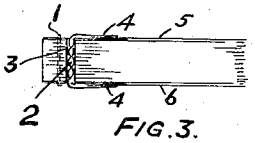


FIG. 3.

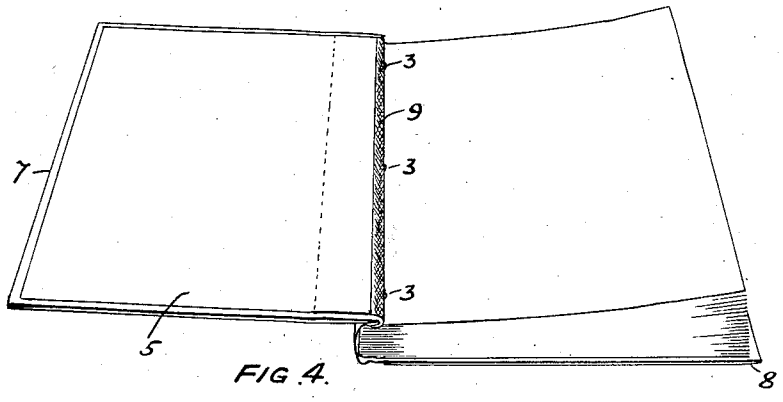


FIG. 4.

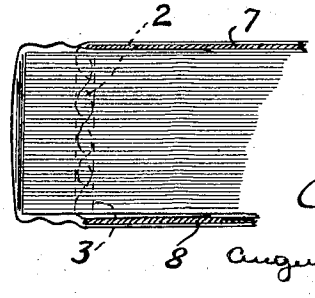


FIG. 5.

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UNITED STATES PATENT OFFICE.

CHARLES F. KINT, OF JENKINTOWN, PENNSYLVANIA.

BINDING FOR BOOKS.

Application filed April 27, 1922. Serial No. 556,937.

To all whom it may concern:

Be it known that I, CHARLES F. KINT, a citizen of the United States, residing at Jenkintown, in the county of Montgomery and State of Pennsylvania, have invented a new and useful Improvement in Bindings for Books, of which the following is a specification.

The principal object of the present invention is to provide a binding for books of comparatively simple and expeditious manufacture and which shall be strong and flexible, flat opening, and capable of withstanding hard usage and therefore well adapted but not limited to school books.

The invention will be claimed at the end hereof but will be first described with reference to the accompanying drawings forming part hereof and in which—

Figure 1 is a perspective view of a book with the back and covers removed and embodying features of a binding of the invention.

Fig. 2 is a view of the lefthand edge or back of the structure shown in Figure 1.

Fig. 3 is a transverse sectional view showing features of the invention.

Fig. 4 is a perspective view of an open book having a binding embodying features of the invention, and

Fig. 5 is an enlarged sectional view of the back of the book shown in Fig. 4.

In the drawings 1 are staples arranged in a line and they serve to bind the leaves. 2 are tapes in twisted form, for strength and elasticity, where they pass through openings 3, and the openings 3 are round for strength, and the openings 3 are provided through the leaves and are disposed inside of the line of staples. The ends 4 of the tapes are flat and are secured to leaves 5 and 6 provided for attachment to the book covers 7 and 8. The leaves 5 and 6 are shown as reinforced by strips of cloth 9 through which the holes 3 are punched and to which the flat parts 4 of the tapes are secured.

The fact that the holes 3 are round opposes tearing of the leaves and also avoids weakening the leaves because the amount of material removed is small. The fact that the tapes are twisted adds to their strength because any strain upon them is divided quite uniformly among their threads or strands, and the fact that the tapes are twisted also increases their elasticity. The elasticity of the tapes permits of the free opening of the covers of the book, as shown in Fig. 4, without undue strain upon any part of the binding and the fact that the tapes are strong by reason of their twisting insures substantial attachment of the covers to the book. The described binding fastens the cover to the book in an elastic and substantial manner while at the same time the binding is simple and easy of manufacture. As shown each staple passes through all the leaves of the book.

I claim:

1. A book having covers and a plurality of signatures and a binding comprising in combination a line of staples each passing through all the signatures for holding them, tapes in twisted form for strength and elasticity where they pass through openings of round form for strength and provided through the signatures inside of the line of staples, the ends of the tapes being flat and secured to the leaves provided for attachment to the book cover.

2. A book having a plurality of signatures and covers and a binding comprising in combination a line of fastenings each passing through all the signatures, leaves provided with reinforcing fabric strips adapted for attachment to the cover, and tapes passing through openings provided through the signatures inside of the line of staples, the ends of the tapes being secured to the fabric strips.

CHARLES F. KINT.