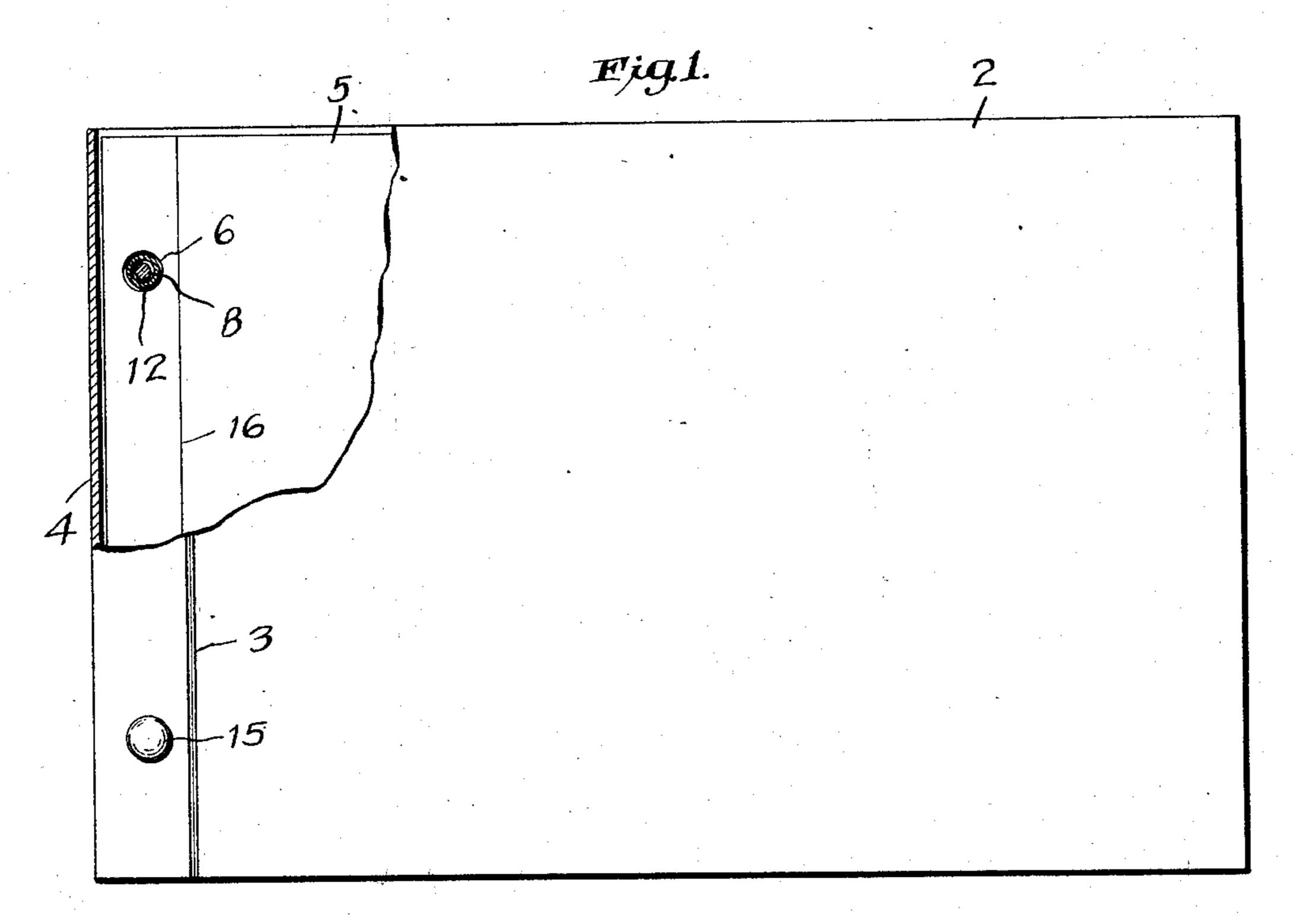
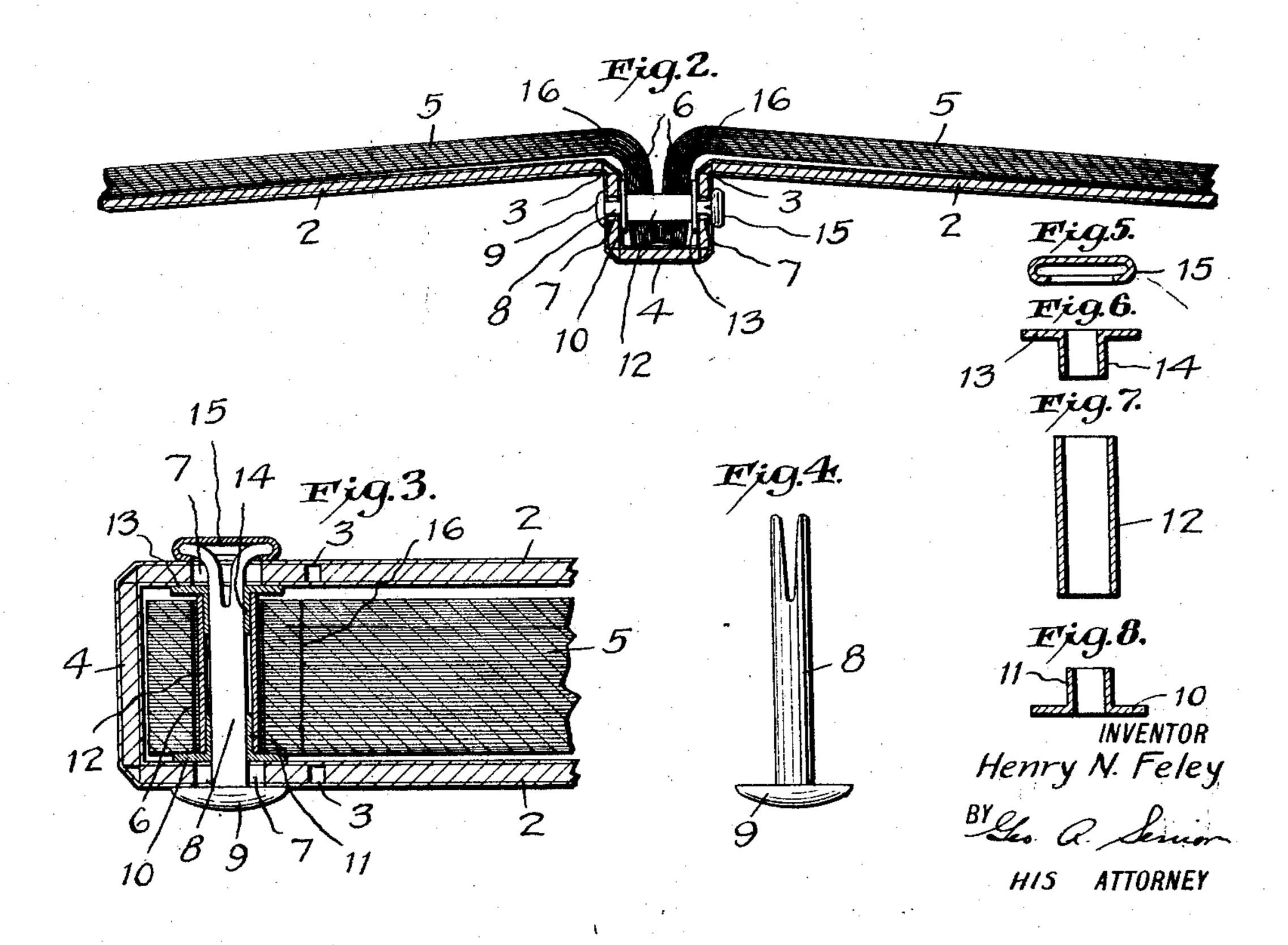
H. N. FELEY

BOOK

Original Filed April 2, 1926





UNITED STATES PATENT OFFICE

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BOOK

Original application filed April 2, 1926, Serial No. 99,237. Divided and this application filed November 8, 1926. Serial No. 147,050.

The object of the invention is to provide or shaft 8 is first inserted through each of manner so that the book will lie open at any a collar 11 is then placed on each of the shafts 5 point. It is a serious inconvenience of or- 8 of the split rivets so that the flange 10 rests 55 open in order to keep the stubs from spring- are then passed over the shafts 8 and collars ing over onto the page to be written upon. 11 so that their lower ends abut the flanges 10. According to the present invention the book The two shafts 8, their collared flanges 10 10 is bound by means of split rivets passed and sleeves 12 having been assembled in this 60 15 against the inner sides of the cover and keep the shafts 8, the collars 14 entering the sleeves 65 20 the parts standing within them, permits the ing on the flanges 13. In the final operation 70 the book is opened. Other features of the spread apart, or upset, and a cap 15 is applied invention will become apparent as the specifi- over and in engagement with them, forming cation proceeds.

part hereof:

ing the invention, a portion of the cover being broken away;

Fig. 2 is a longitudinal section through the book, open, the end portions being broken It will be observed that the spacer means away because of lack of space.

Fig. 3 is a fragmentary sectional view on a larger scale, showing the closed condition; 35 and

Figs. 4, 5, 6, 7 and 8 are detail sectional views of the parts seen in Figs. 1, 2 and 3, before assembling.

40 2, the hinges of the front and back parts of the cover are marked 3, and the binding strip the leaves by the flanges 10 and 13. The disof the cover is marked 4. The interior pad consists of separate leaves 5, not united by er than the thickness of the pad of leaves, stitching, staples or gum.

rear portion of the collection of sheets, and more, it will be seen that the holes 6 through corresponding holes 7 are made in the cover. the leaves are materially wider than the ex-

an improved flat-opening check-book, or the holes 7 in one of the parts of the cover. other book, constructed in an advantageous An end member, including a flange 10 having dinary check-books that they must be held against the inside of the cover. Sleeves 12

through openings in the sheets and cover manner, the collection of sheets 5 are placed and provided with heads outside of the cover, over the shafts and sleeves. Two other end and spacer means on the shaft inside the members, including flanges 13 having collars cover, the spacer means being adapted to bear 14 are pushed over the protruding ends of the sheets free, that is to say, not tightly held 12 and the flanges 13 abutting the upper ends or gripped. This, together with the fact of the sleeves 12. The openings 7 in the that the openings through the separate sheets other cover member are then passed over the are materially larger than the diameter of ends of the shafts, this cover member restleaves to separate loosely at any point where of assembling, the prongs of the rivet are a retaining head. Thus it is evident that one In the accompanying drawings, forming part of the cover 2 is gripped between the 75 head 9 of the rivet and the flange 10, and the Fig. 1 is a plan view of the book embody- other part of the cover is gripped between the cap 15 and flange 13 while the leaves of the book remain loose between the flanges 10 and 13.

formed by the sleeves 12 and flanges 10 and 13 which bear against the inner sides of the cover is so designed, and of such length, that the pressure exerted in clinching and 85 upsetting the binder fastening does not result in the leaves 5 being gripped or compressed at the binding. Instead they re-The stiff-board cover of the book is marked main quite loose between the parts of the cover, which are held somewhat away from 90 tance between the flanges 10 and 13 is greator, at least, the leaves are only loosely held Two large holes 6 are made through the between the flanges 10 and 13. Further- 95 The holes in both the leaves and cover may be ternal diameter of the sleeves 12 within made at the same time. them. Consequently, when the book is A split rivet having a head 9 and shank opened at any point, the two sections of the 100 collection of sheets part freely as shown in Fig. 2, and there is no tendency for one side

to flop over on the other.

Further contributing to this effect, the individual sheets are provided with creases 16, parallel with the binding, adjacent and in front of the holes 6, these creases tending to destroy the springiness of the paper at the regions where the leaves curve over the bends of the cover at the hinges 3, without seriously injuring the strength of the fiber.

The collars 11 and 14 on the flanges 10 and 13 preferably fit the shaft 8 snugly and in addition to insuring the accurate positioning of the sleeve 12 tend to hold the parts in preliminary assembly before the final operation of applying the cap 15 to the rivet.

The caps 15 and the heads 9 of the rivets may be tinted with a color corresponding to the covers of the book and in this way a very neat and pleasing effect is secured.

This application is a division of my pending allowed application, Serial No. 99,237, filed April 2, 1926, patented Nov. 9, 1926,

25 No. 1,606,213.

I claim: A book including covers and interposed sheets having registering perforations, and means for binding the sheets and covers to-30 gether, said means comprising a shaft passed loosely through the perforations in covers and sheets and adapted to be upset beyond one cover, end members arranged on the shaft between the sheets and cover, said 35 end members having collar portions fitting the shaft and extending within the perforations of certain of the sheets and right-angled collar portions overlying the outer surface of the outermost sheets, and a sleeve overlying and fitting the collar portions of the end flanges, the ends of the sleeve bearing squarely against the flange portions of the end members to prevent movement of such end members toward the sheets under the upsetting stress on the shaft end.

In testimony whereof I affix my signature. HENRY N. FELEY.