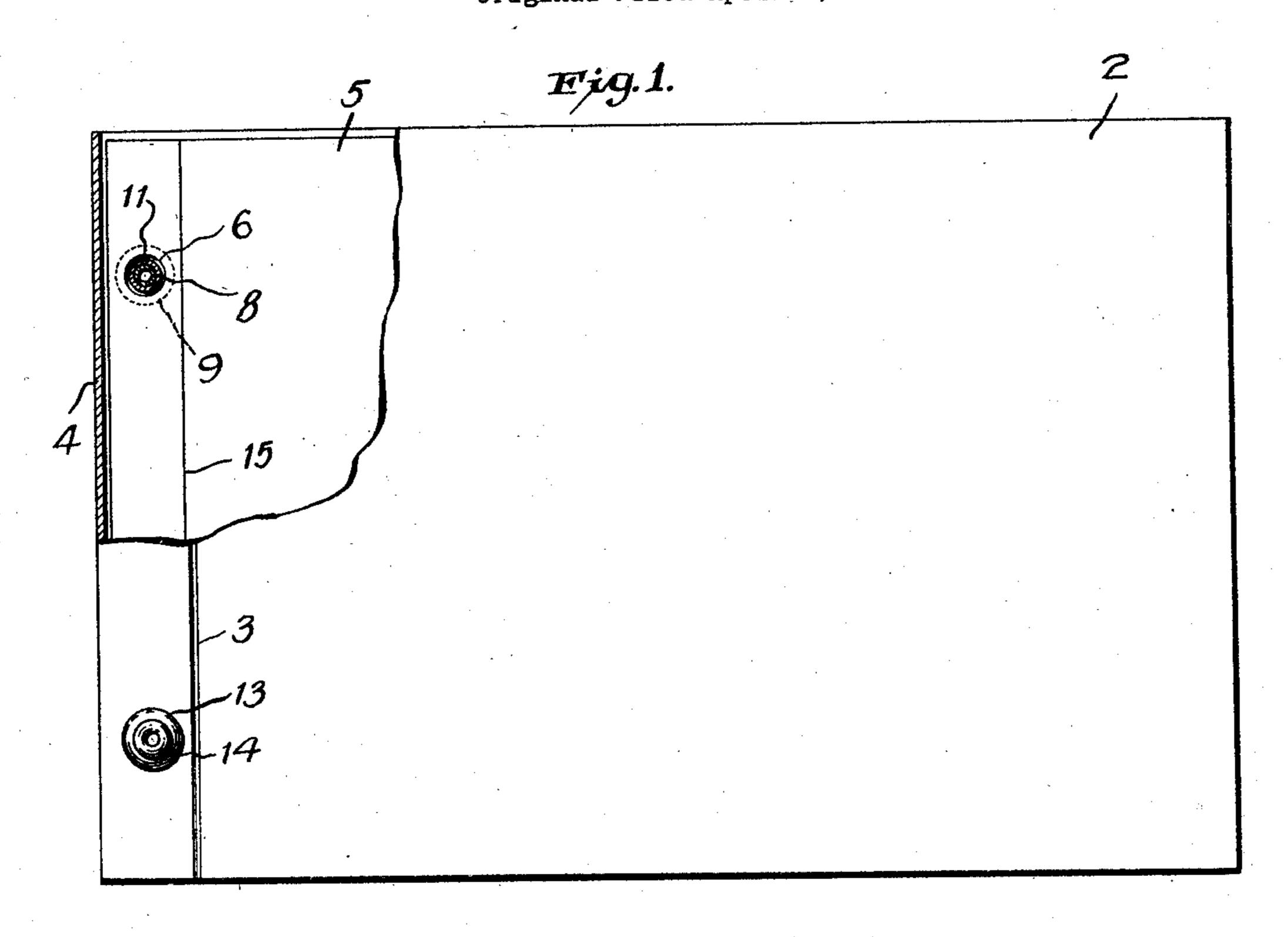
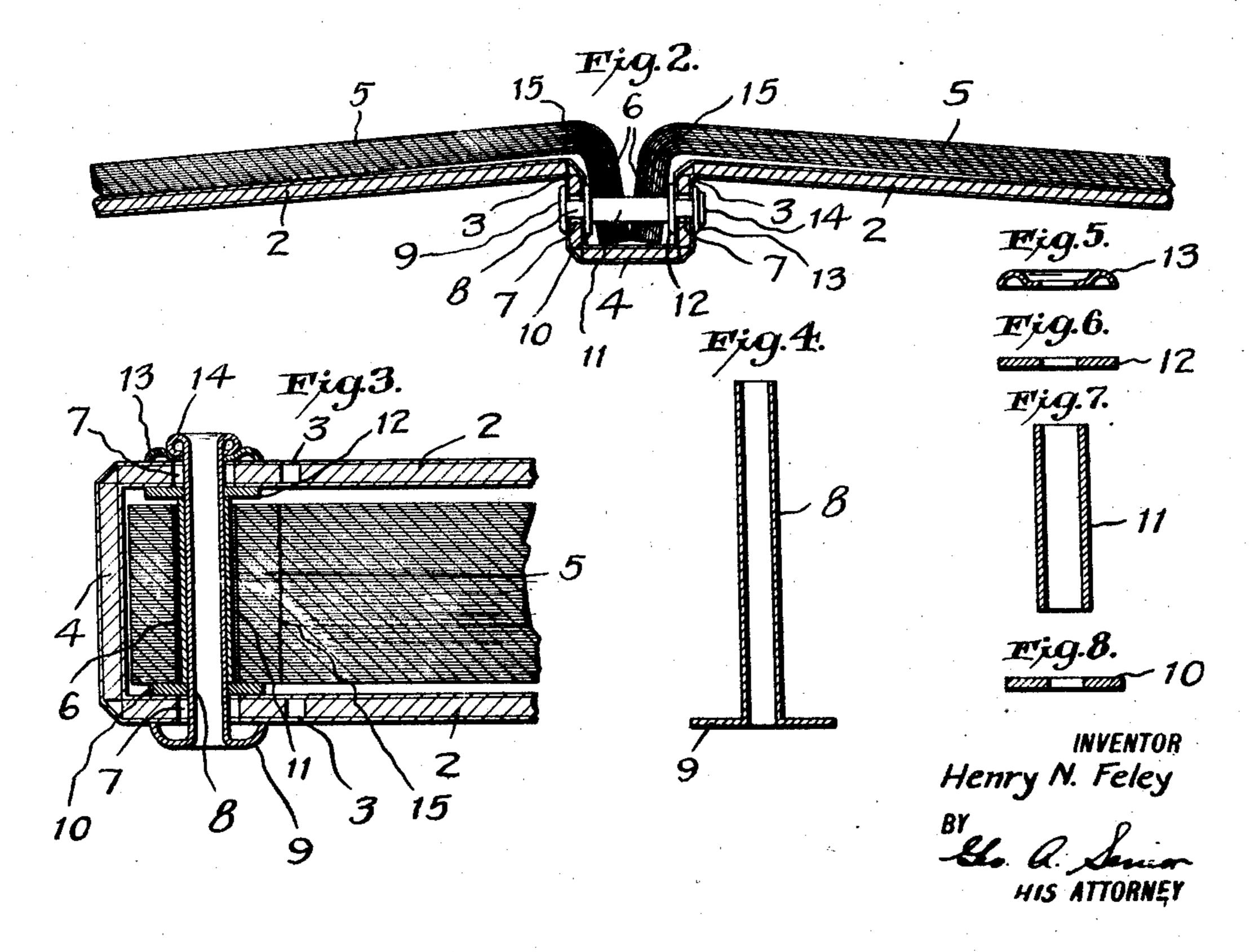
BOOK

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. 147,049.

The object of the invention is to provide an inserted through each of the holes in one of 5 It is a serious inconvenience of ordinary 11 are then pushed over the shafts 8 having 65 check-books that they must be held open in their lower ends abutting the washers 10. 10 by means of shaft members passed through the shafts and sleeves. The two other washagainst the inner sides of the cover and keep ends of the shafts, this cover member resting 65 so of the parts standing within them, permits at the opposite side of the book are preferably 70 where the book is opened. Other features of in Fig. 3. the invention will become apparent as the It will be observed that the spacer means specification proceeds.

In the accompanying drawings, forming

part hereof:

the invention, a portion of the cover being setting the binder fastenings does not rebroken away;

book, open, the end portions being broken main quite loose between the parts of the away because of lack of space;

on a larger scale, showing the closed condi-distance between the washers 10 and 12 is 35 tion; and

views of the parts seen in Figs. 1, 2 and 3, ly held between the washers 10 and 12.

before assembling.

20 2, the hinges of the front and back parts of the cover are marked 3, and the binding strip within them. Consequently, when the book of the cover is marked 4. The interior pad consists of separate leaves 5, not united by stitching, staples or gum.

Two large holes 6 are made through the side to flop over the other. rear portion of the collection of leaves, and Further contributing to this effect, the corresponding holes 7 are made in the cover. individual sheets are provided with creases

made at the same time.

improved flat-opening check-book, or other the parts of the cover. A washer 10 is then book, constructed in an advantageous manner placed over each of the shafts 8 so that it so that the book will lie open at any point. rests against the inside of the cover. Sleeves

order to keep the stubs from springing over The two shafts 8, their washers 10 and onto the page to be written upon. According sleeves 11 having been assembled in this manto the present invention the book is bound ner, the collection of sheets 5 are placed over openings in the sheets and cover and pro- ers 12 are pushed over the protruding ends vided with upset ends outside the cover, and of the shafts 8 so that they abut the upper spacer means on the shafts inside the cover, ends of the sleeves 11. The openings 7 in the the spacer means being adapted to bear other cover member are then passed over the the sheets free, that is to say, not tightly on the washers 12. A washer 13 is placed held or gripped. This, together with the over the end of each shaft outside the cover, fact that the openings through the separate and the ends 14 are upset, forming a retainsheets are materially larger than the diameter ing head. The flanges 9 forming the heads the leaves to separate loosely at any point shaped under pressure in the dies as shown

formed by the sleeves 11 and washers 10 and 12 which bear against the inner sides of the 75 cover is so designed, and of such length, that Fig. 1 is a plan view of the book embodying the pressure exerted in clinching and upsult in the leaves 5 being gripped or com-Fig. 2 is a longitudinal section through the pressed at the binding. Instead they re- 80 cover, which are held somewhat away from Fig. 3 is a fragmentary sectional view the leaves by the washers 10 and 12. The greater than the thickness of the pad of 85 Figs. 4, 5, 6, 7 and 8 are detail sectional leaves, or, at least, the leaves are only loose-Furthermore, it will be seen that the holes The stiff-board cover of the book is marked 6 through the leaves are materially wider than the external diameter of the sleeves 11 90 is opened at any point, the two sections of the collection of sheets part freely as shown in Fig. 2, and there is no tendency for one

The holes in both the leaves and cover may be 15, parallel with the binding, adjacent and in front of the holes 6, these creases tend-A tubular shaft 8 having a flange 9 is first ing to destroy the springiness of the paper 100 at the regions where the leaves curve over the bends of the cover at the hinges 6, without seriously injuring the strength of the fiber.

It may be desirable in manufacturing books in accordance with this invention to have the washers on either end of the sleeves 11 of varying thickness to provide more or less space between the covers and the collection of sheets. This would be determined before the books were assembled and it would be a simple matter to provide washers of any desired thickness.

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

No. 1,606,213.

I claim: A book comprising covers and sheets, the 20 covers and sheets having registering perforations for binding, a sleeve passed through the perforations in the sheets and having a length exceeding the combined thickness of the sheets, a shaft passing through the sleeve 25 and the perforations in the covers, the shaft being headed at both ends beyond the covers, and washers closely encircling the shaft and bearing directly against the respective ends of the sleeve, said washers serving to 30 confine the sheets within the length of the sleeve, and providing with the headed ends of the shaft a rigid gripping means for the covers.

In testimony whereof I affix my signature.

HENRY N. FELEY.

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