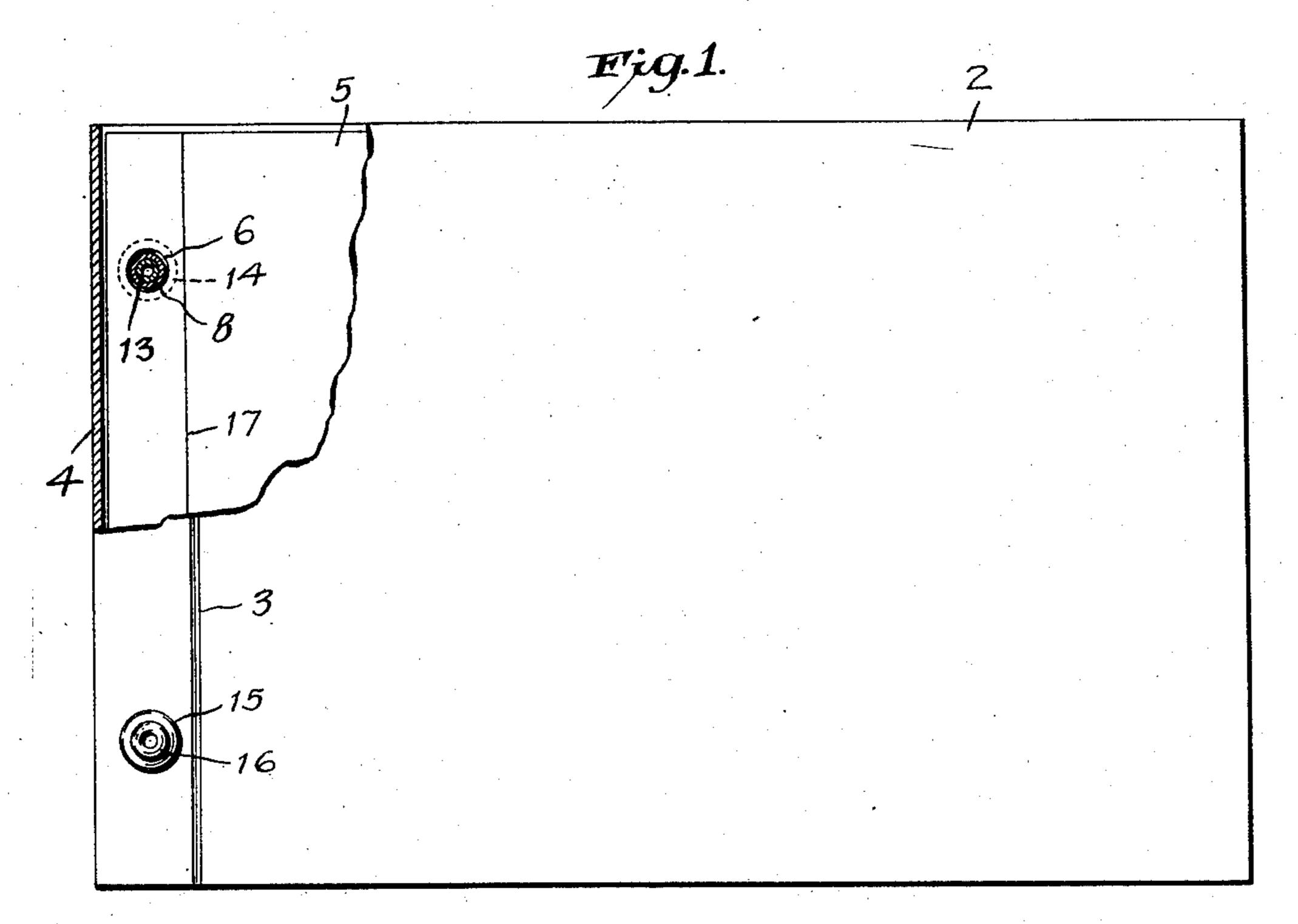
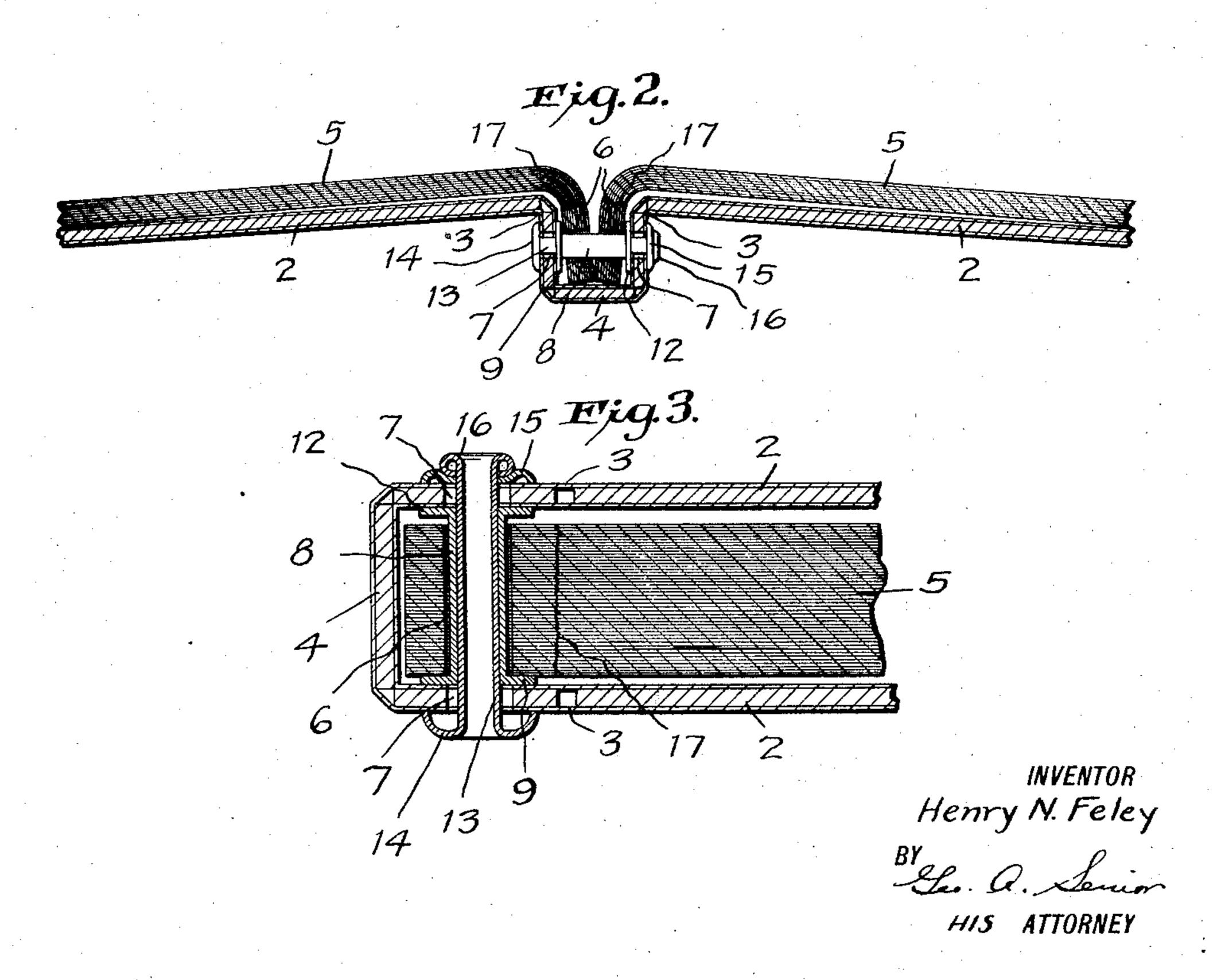
BOOK

Filed Nov. 8, 1926

2 Sheets-Sheet 1

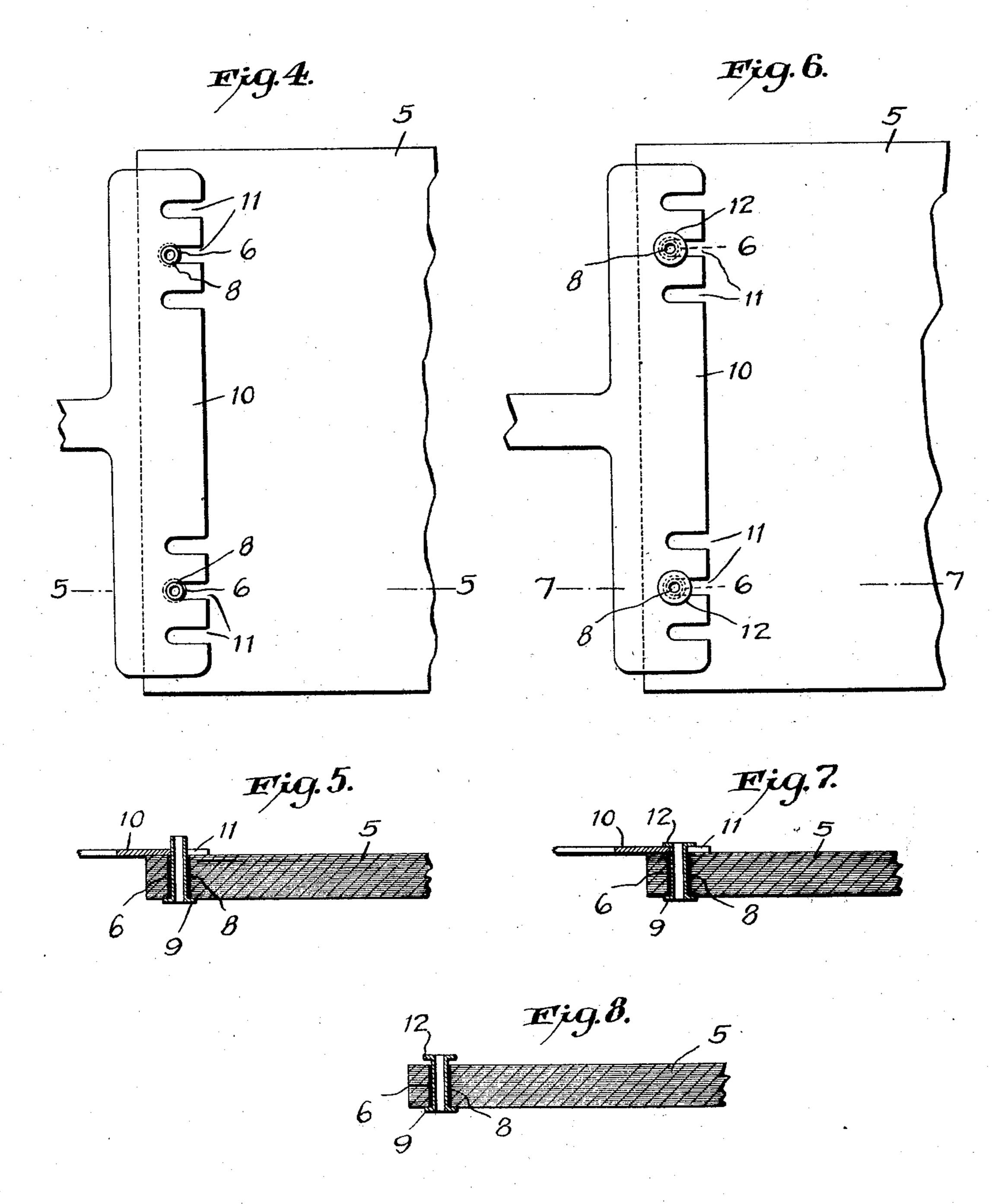




BOOK

Filed Nov. 8, 1926

2 Sheets-Sheet 2



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BOOK

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The object of the invention is to provide 2, the hinges of the front and back parts of 5 point. It is a serious inconvenience of ordi-stitching, staples or gum. nary check-books that they must be held open Two Targe holes 6 are made through the in order to keep the stubs from springing rear portion of the collection of leaves, and over onto the page to be written upon. Ac- corresponding holes 7 are made in the cover. cording to the present invention the book is The holes in both the leaves and cover may 10 bound by means of shaft members passed be made at the same time. through openings in the sheets and cover and Figs. 4 to 8 illustrate the method of bindsheets are materially larger than the diam-plate 10 has a series of open ended slots 11

as the specification proceeds.

part hereof:

ing broken away;

tion of sheets with the removable filler plate the thickness of the filler plate. in position, prior to upsetting the sleeves A tubular shaft 13 having a flange 14 is

Fig. 5 is a sectional view on line 5—5 of

40 Fig. 4;

sheets showing the removable filler plate in over the shafts 13, the flanges 9 bearing position and the upper ends of the sleeves upset;

Fig. 7 is a sectional view on line 7—7 of

Fig. 6; and

moved.

The stiff-board cover of the book is marked

an improved flat-opening check-book, or the cover are marked 3, and the binding strip other book, constructed in an advantageous of the cover is marked 4. The interior pad manner so that the book will lie open at any consists of separate leaves 5, not united by

provided with upset heads outside the cover, ing the collection of sheets or pad 5. Sleeves and spacer means on the shafts inside the 8 having preformed flanges 9 are passed cover, the spacer means being adapted to through the holes 6 in the collection of sheets, 15 bear against the inner sides of the cover and the ends of the sleeves extending beyond the 65 keep the sheets free, that is to say, not tight- collection of sheets as shown in Figs. 4 and 5. ly held or gripped. This, together with the A plate 10, termed a filler plate, is placed on fact that the openings through the separate top of the collection of sheets. This filler 20 eter of the parts standing within them, per- therein and the extended ends of the sleeves 8.70 mits the leaves to separate loosely at any pass through a pair of these slots. A plupoint where the book is opened. Other fea- rality of slots 11 are indicated so as to protures of the invention will become apparent vide for different distances between the holes 6. The extended ends of the sleeves 8 are then In the accompanying drawings, forming upset by suitable dies so as to form flanges 75 12. The filler plate 10 is then removed and Fig. 1 is a plan view of the book embody- the bound pad, as shown in Fig. 8, is ready ing the invention, a portion of the cover be- for insertion in the binder. Attention is called to the fact that after the filler plate Fig. 2 is a longitudinal section through the has been removed the distance between the 180 book, open, the end portions being broken flanges 9 and 12 is greater than the thickness away because of lack of space; of the collection of sheets, or, at least, the Fig. 3 is a fragmentary sectional view on leaves are only loosely held between the a larger scale, showing the closed condition; flanges. The amount of freedom for the Fig. 4 is a plan view showing the collec- sheets may be readily controlled by varying 35

which loosely confine the sheets of the book; then inserted through each of the holes in one of the parts of the cover, the flange 14 being on the outside of the cover. The sleeves 8 53 Fig. 6 is a plan view of the collection of and their collection of sheets 5 are then passed against the inside of the cover. The openings 7 of the other cover member are then passed over the shafts 13, this cover member resting 55 on the flanges 12. A washer 15 is placed over Fig. 8 is a sectional view of the collection the end of each shaft outside the cover and of sheets after the filler plate has been re- the ends 16 are upset, forming retaining heads. The flanges 14 forming the heads at the opposite side of the book are preferably 100 shaped under pressure in the dies as shown

in Fig. 3.

It will be observed that the spacer means formed by the sleeves 8, the flanges 9, 12 of which bear against inner sides of the cover is so designed, and of such length, that the pressure exerted in clinching and upsetting the binder fastenings does not result in the leaves 5 being gripped or compressed at the binding. Instead they remain quite loose between the parts of the cover, which are held away from the leaves by the flanges 9 and 12. As previously stated the leaves are only loosely held between the flanges. Further-15 more, it will be seen that the holes 6 through the leaves are materially wider than the external diameter of the sleeves 8 within them. Consequently, when the book is opened at any point, the two sections of the collection of 20 leaves 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 17, 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 6, without seriously

30 injuring the strength of the fiber.

In the completed book the covers are tightly gripped between the ends of the shafts and the flanges on the spacer sleeves while the leaves remain loose between the flanges on the

35 spacer sleeves.

I claim:

The herein described method of making a book having covers and a series of sheets, consisting in first binding the sheets as a unit by passing a sleeve headed at one end through the openings in the sheets, applying a distance piece over the non-headed end of the sleeve immediately beyond the sheets, heading the sleeve beyond the distance piece, withdrawing the distance piece to permit play of the sheets on the sleeve, and securing the bound sheets between the covers by a shaft passed through the perforations in the covers and through the sleeve binding the sheets.

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

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