

April 22, 1930.

F. J. KLINE

1,755,604

BINDER

Filed Sept. 22, 1927

2 Sheets-Sheet 1

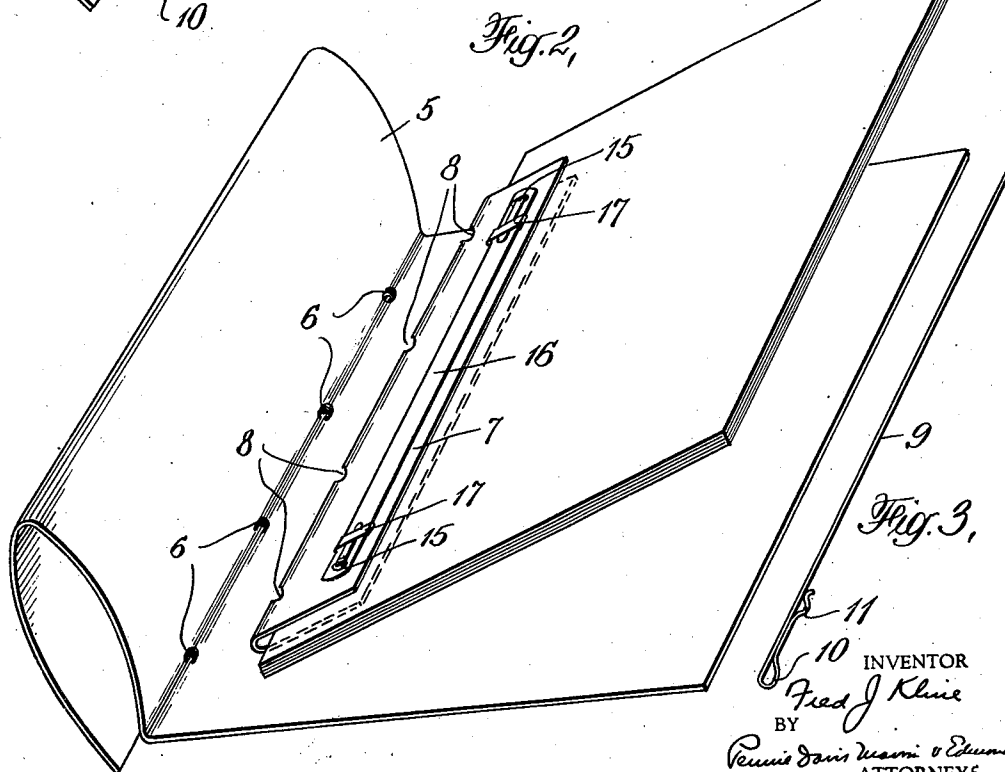
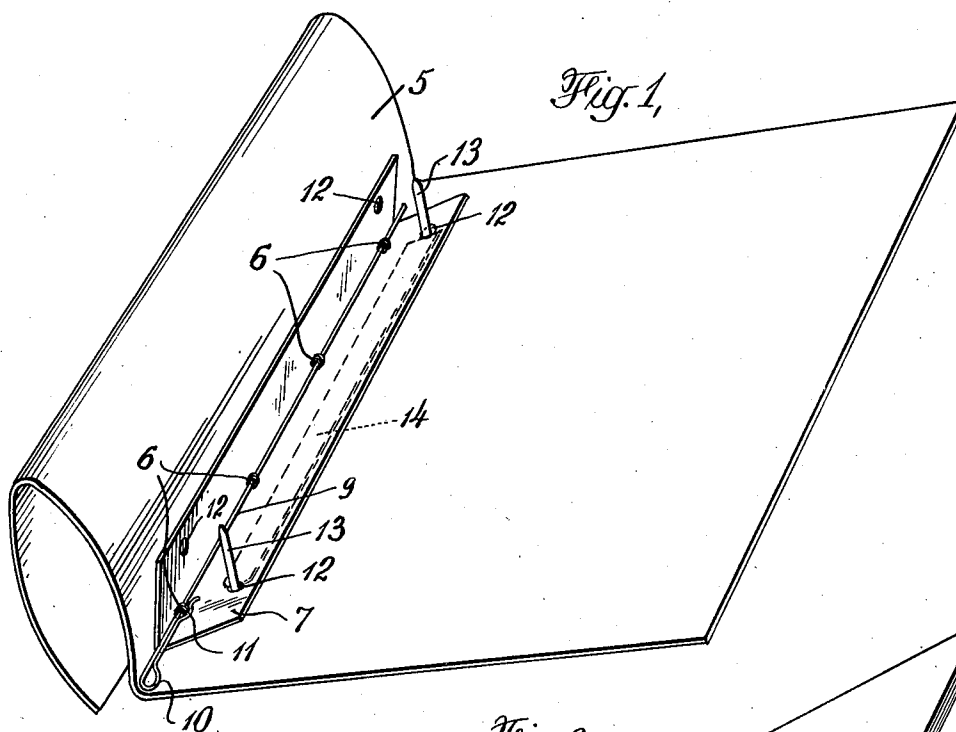


Fig. 3,

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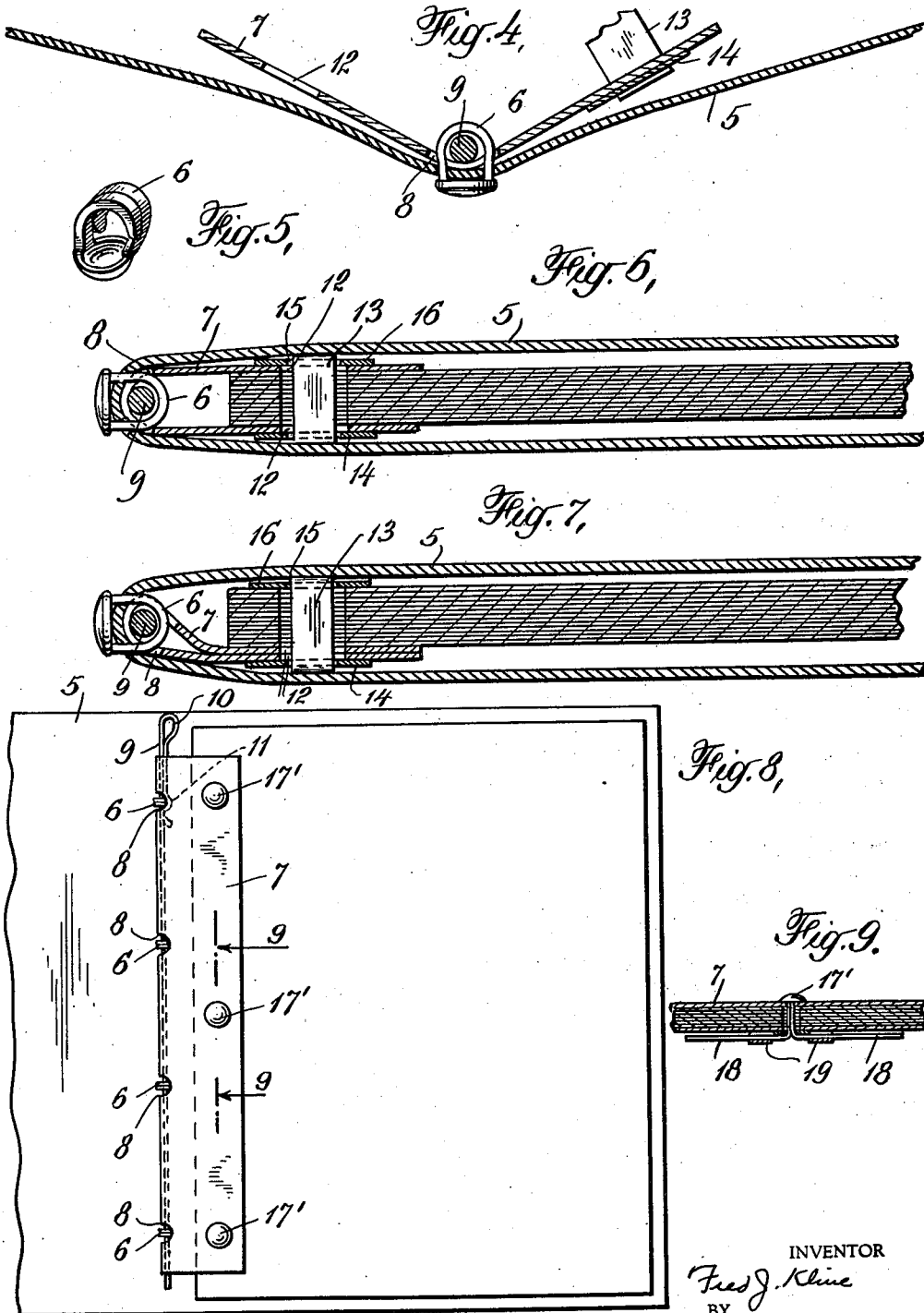
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2 Sheets-Sheet 2



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UNITED STATES PATENT OFFICE

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BINDER

Application filed September 22, 1927. Serial No. 221,235.

This invention relates to binders for letters, documents, miscellaneous papers, and particularly to a simple and effective device whereby such papers may be detachably secured to a cover. This device may be employed for the accumulation of papers in an orderly arrangement. It may be used also as a temporary binder for sheets containing information of various kinds, for example, menu cards, railroad time-tables, and the like.

Many types of binders for papers have been suggested heretofore and some of them are satisfactory for certain purposes. The known types of binders do not, however, afford the advantages of compactness and strength together with simplicity of manipulation which characterizes the binder herein-after described.

It is the object of the present invention to provide a binder in which the papers or sheets may be securely and firmly held in accessible and orderly arrangement, the papers being readily detachable, however, by a simple operation.

Another object of the invention is the removal of accumulated papers or sheets from the binder without disturbing the arrangement thereof.

In carrying out the invention the cover may be made of any suitable material and its dimensions may vary depending upon the size of the papers to be accommodated. Advantageously the cover may be flexible and may be made of leather or imitation leather, cloth or paper. The cover may be stiff, however, with a flexible portion between the front and back. At or adjacent the medial line the cover is provided with a plurality of inwardly directed locking devices which are adapted to project through corresponding openings in the papers to be secured in the binder or through similar openings in a binder strip. Thus a folded menu card or sheet carrying any other information may have a plurality of openings registering with the locking devices or the binder strip may have similar openings.

When the card or strip has been placed in the cover in the manner indicated, it may be secured thereto in various ways. Thus the

locking devices may consist of eyelets riveted or otherwise attached to the cover. A pintle may be passed through the eyelets above the card or strip. The pintle may be held in place by any convenient device as, for example, by bending one end thereof so that it engages one of the eyelets resiliently. The pintle is provided preferably with a kink which normally holds it in place by engagement with the eyelet but permits release thereof upon the application of slight pressure. Separate locking clips may replace the pintle, the clips being disposed in the separate eyelets to hold the card or binder strip in the cover.

Other types of locking devices may be used. Instead of the eyelets and pintle or clips I may employ snap fasteners secured to the cover with projecting parts with which the openings in the card or binder strip register. The cooperating parts of the snap fasteners may be placed above the card or binder strip.

While the locking devices are disposed preferably at the medial line of the cover, they may also be placed on the front or back portions thereof or on both. The cover may thus enclose separate cards or sheets or separate files of papers so that the cards or files are individually removable therefrom.

The papers may be secured to the binder strip, when such a strip is used, by any suitable fasteners of which various forms are known to the trade. Thus, the binder strip may be punched with holes at standard distances to receive the tongues of the fasteners which may be secured by locking plates or otherwise. One form of fastener adapted for such use comprises a base with projecting tongues of flexible metal which, after passing through perforations in the binder strip and papers to be bound, are threaded through similar perforations in a locking plate. The ends of the tongues may be secured by sliding locks or otherwise. Another form of fastener comprises a head with contiguous tongues which are spread after passing through the perforations in the binding strip and paper. These tongues may be secured likewise, if desired, with locking plates. In utilizing the invention the papers to be bound

may be disposed between the wings of the binder strip or the wings may be brought together so that the papers to be bound are supported at one side thereon.

5 When a number of papers have been accumulated the binder strip with the papers securely attached thereto can be removed from the cover by simply withdrawing the pintle, or by removing the locking clips or
10 other locking means, thus releasing the binder strip. A new binder strip may be inserted then and secured and additional papers can be accumulated in the cover.

The invention will be described in further
15 detail by reference to the accompanying drawing illustrating the preferred embodiments thereof, it being understood that such detail is merely illustrative of the invention. In the drawing,

20 Fig. 1 is a view in perspective of the binder;

Fig. 2 is another perspective view showing the bound papers separated from the cover;

25 Fig. 3 is a detail in perspective of the pintle;

Fig. 4 is a detail in section of the cover and binding strip;

30 Fig. 5 is a perspective view of one of the eyelets;

Fig. 6 is a sectional view illustrating the fastening of papers to the binding strip;

Fig. 7 is a sectional view showing another arrangement of the papers;

35 Fig. 8 is a plan view illustrating the use of another type of fastener;

Fig. 9 is a sectional view of the fastener shown in Fig. 8.

40 Referring to the drawing, 5 indicates the cover which, as hereinbefore indicated, may be of any suitable material, preferably flexible. A plurality of eyelets 6 are secured at the medial line of the cover projecting inwardly. The eyelets may be fastened by riveting or otherwise. A binder strip 7 with
45 perforations 8 registering with the eyelets is placed in the cover and held by a pintle 9 which overlies the strip and passes through the eyelets forming a hinge. The end of the
50 pintle 9 is bent at 10 and has a kink 11 which engages one of the eyelets. The pintle is thus held in place except when pressure is applied to withdraw it.

55 The wings of the binder strip are perforated at 12 and are adapted to be disposed, for example, on opposite sides of the papers to be bound. The latter are perforated to receive tongues 13 supported on the base 14
60 of a fastener. The tongues likewise pass through the perforations 12 in the binder strip and through openings 15 in a locking plate 16. The latter may be provided with sliding locks 17 to secure the ends of the
65 tongues. Instead of placing the wings of

the binder strip on opposite sides of the papers the wings may be brought together and the papers may be secured by the fastener to one side of the binder strip as indicated in Fig. 7.

70 In Fig. 8 the papers are secured by separate fasteners 17' having tongues 18 which pass through the perforations in the binder strips and in the papers to be secured. Locking plates 19 may be used to prevent separation of the fasteners. The papers may be
75 secured between the wings of the binding strip or the wings may be brought together and the papers fastened thereto.

80 In either form of the invention removal of the sheets or accumulated papers is accomplished by withdrawing the pintle. The bound papers can be filed or disposed of otherwise and a new binder strip can be inserted.

85 Among the special advantages of the invention is the uniform expansion on opposite sides of the hinge connection so that the edges of the front and back covers remain in proper alignment during expansion up to the full capacity of the binder. The simplicity of
90 manipulation in inserting the binder strip and in removing the accumulated papers as well as in adding or removing separate papers is evident. Nevertheless the papers are always securely bound and held in the cover
95 until intentionally removed.

Various changes can be made in the details of construction and arrangement of the parts without departing from the invention or sacrificing the advantages thereof. 100

I claim:—

105 In a binder for papers, a folded cover, a plurality of members extending inwardly through the cover along its fold-line and forming eyelets on the inside thereof, a binder strip within said cover having a plurality of openings along its fold-line through which said eyelets extend, a pintle overlying the binder strip and extending through the
110 eyelets to form a hinge, means for removably securing the pintle, and means carried by said binder strip for detachably securing papers between the folds thereof.

115 In testimony whereof I affix my signature.
FRED J. KLINE.