

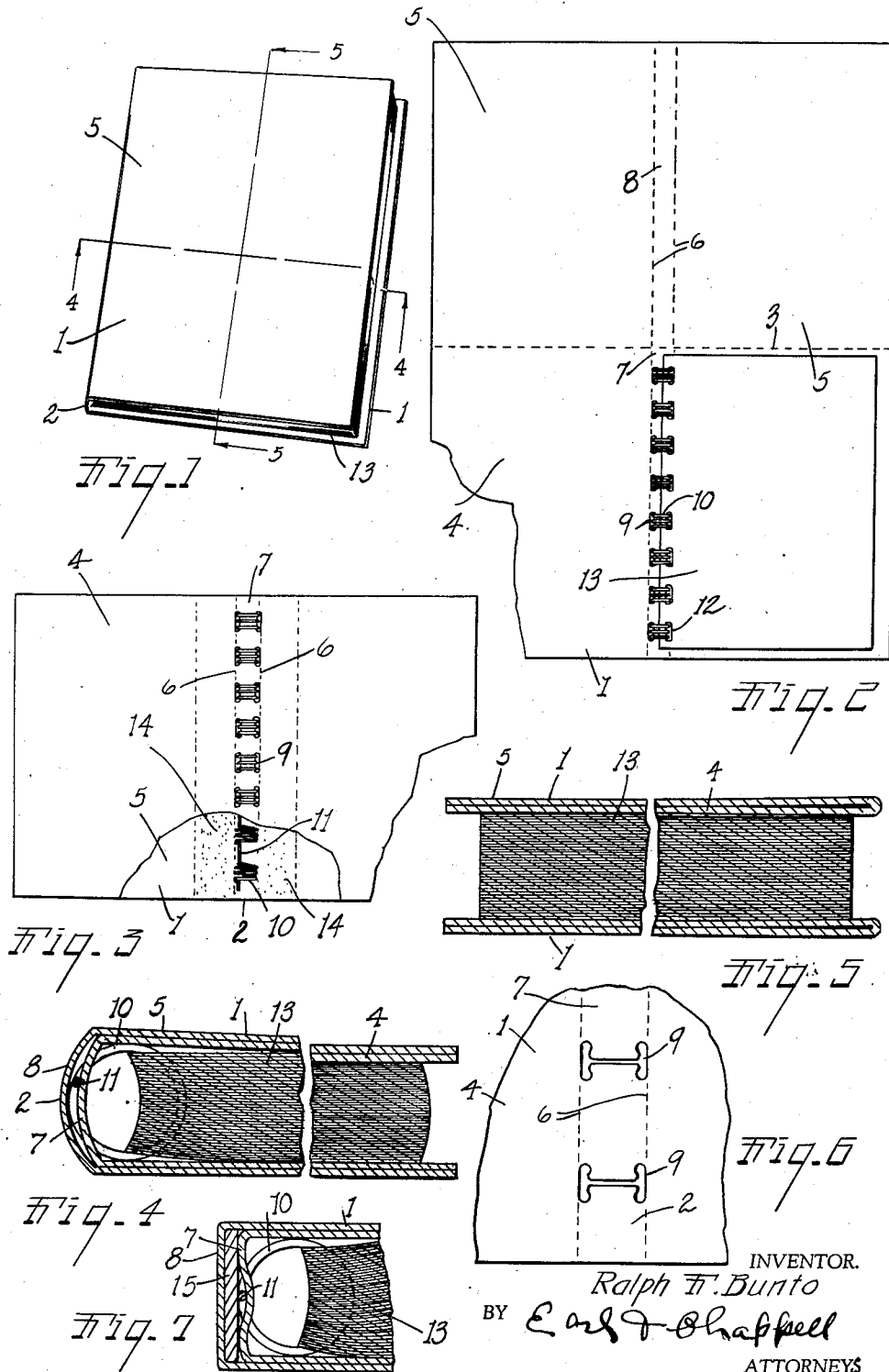
Aug. 6, 1940.

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2,210,022

TEMPORARY BINDER OR LOOSE SHEET HOLDER

Filed June 30, 1938



UNITED STATES PATENT OFFICE

2,210,022

TEMPORARY BINDER OR LOOSE SHEET
HOLDER

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Application June 30, 1938, Serial No. 216,717

15 Claims. (Cl. 129—18)

This invention relates to improvements in temporary binders or loose sheet holders.

The main objects of this invention are:

First, to provide an improved temporary binder or loose sheet holder which is very simple and economical in structure, at the same time one in which the wire binding element is completely concealed when the binder is closed.

Second, to provide an improved temporary binder or loose sheet holder which permits the use of relatively soft low-priced cover stocks, at the same time one in which the binding element is effectively retained.

Third, to provide a structure having these advantages in which the completed binder closely approaches the appearance of an ordinary bound book with the so-called library binding.

Fourth, to provide a temporary binder or loose sheet holder employing a wire sheet binding element which may be manually assembled in the covers rapidly and without the aid of machines or special apparatus.

Fifth, to provide an improved loose sheet binder having these advantages in which the cover lies flat upon a support and the binding elements are effectively supported for manipulation for the engagement and removal of sheets.

Objects relating to details and economies of the invention will appear from the description to follow. The invention is defined and pointed out in the claims.

A preferred embodiment of the invention is illustrated in the accompanying drawing, in which:

Fig. 1 is a perspective view of a closed binder embodying the features of my invention.

Fig. 2 is a fragmentary inside view with the outer cover member in extended position or prior to its being folded to its final cover position, the object of the figure being to show the structure of the covers.

Fig. 3 is a fragmentary inside view with the inner cover and back member partially broken away.

Fig. 4 is an enlarged detail section on line 4—4 of Fig. 1.

Fig. 5 is an enlarged detail section on line 5—5 of Fig. 1.

Fig. 6 is an enlarged plan view of the inner cover and back member showing the binding member receiving slots therein.

Fig. 7 is a fragmentary detail section of a modified form or embodiment of my invention.

In the embodiment of my invention shown in the accompanying drawing, the covers designated generally by the numerals 1, 1 and the back

designated generally by the numeral 2 are formed integrally of sheet material, the sheet from which the parts are formed being shown in Fig. 2 in extended form. This sheet is scored transversely at 3 to permit folding into inner and outer cover members 4, 4 and 5, 5 respectively, and at 6 to provide inner and outer back members 7 and 8, respectively. This type of cover generally considered is what is known as a French cover.

The inner back member 7 is provided with a plurality of spaced I-shaped slots 9 which are adapted to receive the sheet engaging members 10 which are connected in spaced relation by the reaches 11. These sheet engaging elements, in the embodiment illustrated, each comprise a plurality of turns or coils resiliently held in normally spaced relation and axially collapsible to facilitate their engagement with the I-shaped slots 9 in the inner back member and with the T-shaped slots or notches 12 in the sheets 13. These sheets are conventionally shown.

The sheet engaging elements are arranged through the slots 9 with their reaches 11 on the rear or outer side of the inner back member so that it is practically impossible to disengage the sheet binding member from the covers without practically destroying the binding. The sheet engaging elements are inserted through the slots 9 from the rear of the inner back member preferably by collapsing and when permitted to expand their end convolutions engage the ends of the cross portions or end enlargements of the slots 9. The outer back and cover members are then folded against the inner cover and back members and preferably secured by strips of adhesive indicated at 14 joining the inner and outer cover members at each side of the back member. This holds the inner and outer cover members in aligned position and prevents any flapping movement of the outer cover members and also manipulation to remove the binding element.

The structure is quite satisfactory, however, without this securing of the cover members together, and they may be "tacked" at spaced intervals instead of being secured throughout the length of the back members.

In the embodiment shown in Fig. 7 a stiffening or reinforcing member 15 is interposed between the back members 8 and 7 and preferably adhesively secured to both of them. By this simple expedient a relatively stiff back is secured and it provides a flat back instead of a rounded back where flat backs are desired.

The outer back member conceals and protects the binding element so that it does not scratch or

mar a desk upon which it is laid or moved about. The binding elements cannot become entangled with the binding elements of other binders when the binders are closed. Further, the completed binder is attractive in appearance and has much the appearance of a bound book.

A further advantage is that relatively thin soft stock may be used with satisfactory results.

My improved temporary binders or loose sheets holders have a wide range of uses, as in catalogue binders, copy and notebooks, and, in fact, in many relations where light inexpensive temporary binders are desired.

I have illustrated and described my improvements in an embodiment which I have found highly practical. I have not attempted to show various other embodiments or adaptations which I contemplate as it is believed this disclosure will enable those skilled in the art to embody or adapt my improvements as may be desired.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent, is:

1. In a temporary binder or loose sheet holder, the combination with covers and back formed integrally of sheet material folded upon itself to provide superimposed inner and outer cover and back members, the sheet material constituting the inner and outer back members being scored to provide a hinge connection for the covers and back, the inner back member having a plurality of spaced transverse I-shaped slots therein, and a sheet binding member formed of resilient wire having spaced coil sheet engaging elements, each element having a plurality of complete turns resiliently held in normally spaced relation, the sheet engaging elements being connected by aligned reaches, said sheet engaging elements being axially collapsible to facilitate engagement with slotted sheets and with said slots of the inner back member and being engaged in said back member slots with their end portions engaging the cross portions of the slots and with their connecting reaches between the back members, said inner and outer cover members being adhesively secured to each other at each side of and closely adjacent to the said scores throughout the length thereof with the outer back member in supporting engagement with the binding member.

2. In a temporary binder or loose sheet holder, the combination with covers and back formed integrally of sheet material folded upon itself to provide superimposed inner and outer cover and back members, the sheet material constituting the inner and outer back members being scored to provide a hinge connection for the covers and back, the inner back member having a plurality of spaced transverse I-shaped slots therein, and a sheet binding member formed of resilient wire having spaced coil sheet engaging elements, each element having a plurality of complete turns resiliently held in normally spaced relation, the sheet engaging elements being connected by aligned reaches, said sheet engaging elements being axially collapsible to facilitate engagement with slotted sheets and with said slots of the inner back member and being engaged in said back member slots with their end portions engaging the cross portions of the slots and with their connecting reaches between the back members.

3. In a temporary binder or loose sheet holder, the combination with covers and back formed integrally of sheet material folded upon itself to provide superimposed inner and outer cover and

back members, the inner back member having a plurality of spaced transverse I-shaped slots therein, and a sheet binding member formed of resilient wire having spaced coil sheet engaging elements, each element having a plurality of complete turns resiliently held in normally spaced relation, the sheet engaging elements being connected by aligned reaches, said sheet engaging elements being axially collapsible to facilitate engagement with slotted sheets and with said slots of the inner back member and being engaged in said back member slots with their end portions engaging the cross portions of the slots and with their connecting reaches between the back members.

4. In a temporary binder or loose sheet holder, the combination with covers and back formed integrally of sheet material folded upon itself to provide superimposed inner and outer cover and back members, the inner back member having a plurality of spaced transverse I-shaped slots therein, and a sheet binding member formed of resilient wire having spaced coiled sheet engaging elements, each element having a plurality of complete turns resiliently held in normally spaced relation, the sheet engaging elements being connected by aligned reaches, said sheet engaging elements being axially collapsible to facilitate engagement with slotted sheets and with said slots of the inner back member and being engaged in said inner back member slots with their end portions engaging the enlarged end portions thereof and with their connecting reaches between the back members, said inner and outer cover members being adhesively secured to each other adjacent to the said back members.

5. In a temporary binder or loose sheet holder, the combination with covers and back formed integrally of sheet material folded upon itself to provide superimposed inner and outer cover and back members, the inner back member having a plurality of spaced transverse slots with enlarged ends, and a sheet binding member formed of resilient wire having spaced coiled sheet engaging elements, each element having a plurality of complete turns resiliently held in normally spaced relation, the sheet engaging elements being connected by aligned reaches, said sheet engaging elements being axially collapsible to facilitate engagement with slotted sheets and with said slots of the inner back member and being engaged in said enlarged ends of said inner back member slots.

6. In a temporary binder or loose sheet holder, the combination with covers and a back comprising inner and outer members, the inner back member having a plurality of spaced transverse slots therein with enlarged ends, and a sheet binding member formed of resilient wire having spaced coiled sheet engaging elements, each element comprising a plurality of complete turns resiliently held in normally spaced relation and axially collapsible to facilitate engagement with slotted sheets and with said slots of the inner back member, the sheet engaging elements being connected by aligned reaches, said sheet engaging elements being engaged in said inner back member slots with their end portions engaging the enlarged portions of the slots and with their connecting reaches between the back members.

7. In a temporary binder or loose sheet holder, the combination with covers and a back comprising inner and outer members, the inner back member having a plurality of spaced transverse

openings in the form of restricted transverse portions and enlarged end portions communicating therewith, and a sheet binding member formed of resilient wire having spaced coiled sheet engaging elements, each element comprising a plurality of complete turns resiliently held in normally spaced relation and axially collapsible to facilitate engagement with slotted sheets and insertion in said restricted portions of the inner back member openings, the sheet engaging elements being connected by aligned reaches, said sheet engaging elements being in interlocking engagement with said end portions of the inner back member openings with their connecting reaches between the back members.

8. In a temporary binder or loose sheet holder, the combination with covers and back, the covers and back being formed integrally of sheet material folded upon itself to provide superimposed inner and outer cover and back members, the sheet material being scored to provide a hinge connection for the covers and back, the inner back member having a plurality of spaced openings therein in the form of restricted transverse portions and enlarged end portions communicating therewith, and a sheet binding member formed of wire and having spaced sheet engaging elements connected by aligned reaches, said sheet engaging elements being collapsible for insertion in said restricted portions and being in interlocking engagement with said end portions of the openings of said inner back member with their connecting reaches between the back members, said inner and outer cover members being adhesively secured to each other adjacent the back members with the binding member sheet engaging elements in engagement with the slots of the inner back member.

9. In a temporary binder or loose sheet holder, the combination with covers and back, the covers and back being formed integrally of sheet material folded upon itself to provide superimposed inner and outer cover and back members, the sheet material being scored to provide a hinge connection for the covers and back, the inner back member having a plurality of spaced openings therein in the form of restricted transverse portions and enlarged end portions communicating therewith, and a sheet binding member formed of wire and having spaced sheet engaging elements connected by aligned reaches, said sheet engaging elements being collapsible for insertion in said restricted portions and being in interlocking engagement with said end portions of the openings of said inner back member with their connecting reaches between the back members.

10. In a temporary binder or loose sheet holder, the combination with covers and back, the covers and back being formed integrally of sheet material folded upon itself to provide superimposed inner and outer cover and back members, the sheet material being scored to provide a hinge connection for the covers and back, the inner back member having a plurality of spaced openings therein in the form of restricted transverse portions and enlarged end portions communicating therewith, and a sheet binding member formed of wire and having spaced sheet engaging elements connected by aligned reaches, said sheet engaging elements being collapsible for insertion in said restricted portions and being in interlocking engagement with said end portions of the openings of said inner back member, said inner and outer cover members being adhesively secured to each other adjacent the back members

with the binding member sheet engaging elements in engagement with the openings of the inner back member.

11. In a temporary binder or loose sheet holder, the combination with a back comprising inner and outer members, the inner back member having a plurality of spaced openings in the form of restricted transverse portions and enlarged end portions communicating therewith, and a sheet binding member having spaced coiled sheet engaging elements, the sheet engaging elements being connected by aligned reaches, said sheet engaging elements being collapsible for insertion in said restricted portions and being in interlocking engagement with said end portions of the inner back member openings and with their connecting reaches between the back members.

12. In a temporary binder or loose sheet holder, the combination with covers and back members, the covers and back members being formed integrally of sheet material folded upon itself to provide superimposed inner and outer back members, the inner back member having a plurality of spaced openings therein in the form of restricted transverse portions and enlarged end portions communicating therewith, a sheet binding member formed of wire and having spaced sheet engaging elements connected by aligned reaches, said sheet engaging elements being collapsible for insertion in said restricted portions and being in interlocking engagement with said end portions of the openings of said inner back member with their connecting reaches between the back members, and a back reinforcing member disposed between said back members and adhesively secured to both of them, said reinforcing member being in supporting engagement with the reaches of said binding member.

13. In a temporary binder or loose sheet holder, the combination with covers and back members, the covers and back members being formed integrally of sheet material folded upon itself to provide superimposed inner and outer back members, the inner back member having a plurality of spaced openings therein in the form of restricted transverse portions and enlarged end portions communicating therewith, a sheet binding member formed of wire and having spaced sheet engaging elements connected by aligned reaches, said sheet engaging elements being collapsible for insertion in said restricted portions and being in interlocking engagement with said end portions of the openings of said inner back member with their connecting reaches between the back members, and a back reinforcing member disposed between said back members, said reinforcing member being in supporting engagement with said binding member.

14. In a binder or loose sheet holder, the combination of covers and a back, comprising inner and outer members, the inner member having a plurality of spaced openings therein in the form of restricted transverse portions and enlarged end portions communicating therewith, and a plurality of binding members comprising spaced coiled sheet engaging elements each having a plurality of turns resiliently held in normally spaced relation and axially collapsible for insertion in said restricted portions, said elements expanding and engaging in said end portions for interlocking engagement therewith, the portions of the turns of said elements to the rear of said inner member being covered by the outer member, and means for connecting said elements to one another.

15. In a binder or loose sheet holder, the combination of covers and a back, comprising inner and outer members, the inner member having a plurality of spaced openings therein in the form of restricted transverse portions and enlarged end portions communicating therewith, and a plurality of binding members comprising spaced coiled sheet engaging elements each having a

plurality of turns resiliently held in normally spaced relation and axially collapsible for insertion in said restricted portions, said elements expanding and engaging in said end portions for interlocking engagement therewith, the portion of the turns of said elements to the rear of said inner member being covered by the outer member.

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