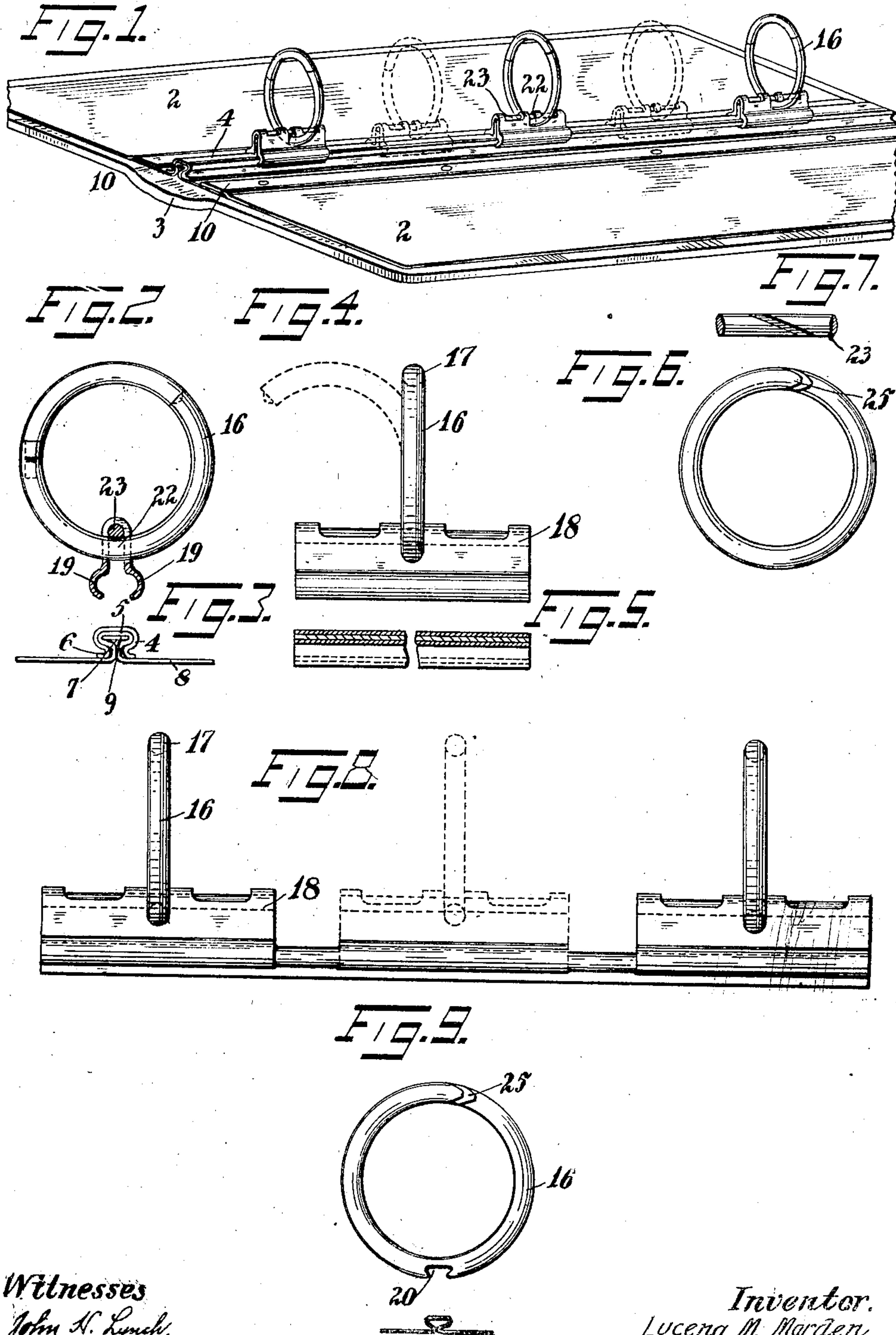


L. M. MORDEN.
 TEMPORARY BINDER.
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908,597.

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UNITED STATES PATENT OFFICE.

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TEMPORARY BINDER.

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To all whom it may concern:

Be it known that I, LUCENA M. MORDEN, a citizen of the United States, residing in Waterbury, in the county of New Haven and State of Connecticut, have invented certain new and useful Improvements in Temporary Binders, of which the following is a specification.

The present improvement relates to temporary binders, the object of the invention being to provide an improved binder in which the rings are not only interchangeable, but also adjustable toward and from each other, thereby to adapt the binder to leaves in which the perforations thereof may be differently located, the object of the present improvement more particularly, however, being to provide an improved means of less width than the inside width or capacity of the rings for mounting such rings, but which will also permit of their being readily adjusted toward and from each other, as well as removable from the binder to permit one size of ring to be interchanged with another size, and especially to provide a binder of the character set forth which is extremely simple in construction and application and highly efficient in use, and by means of which also when the same are used in connection with suitable book-covers such covers may be opened back to back, or the leaves may be opened to lie flat when the covers or other supporting means are laid upon a desk or table.

In the drawings accompanying and forming part of this specification, Figure 1 is a perspective view of this improved temporary binder shown attached to the back of a pair of book-covers, which are partly broken away, the dotted lines illustrating some of the positions to which the adjustable rings may be shifted; Fig. 2 is an enlarged view of one of the rings and its carrying clip or member detached; Fig. 3 is an end view of the track, way, strip or tongue and illustrating the manner of attaching the same to the cover, and in connection with which the form of clip shown in Fig. 2 is used; Fig. 4 is a side view of the ring shown in Fig. 2, the dotted lines showing one part thereof as movable toward and from the other for the insertion and removal of the leaves; Fig. 5 is a longitudinal sectional view of the strip

shown in Fig. 3; Fig. 6 is a view of another form of ring; Fig. 7 is a top view of a portion of the ring shown in Fig. 6; Fig. 8 is an enlarged view of the rings in position on the track or way illustrated, the latter being shown in longitudinal section, the dotted lines representing the positions to which one or the other of said rings may be adjusted; and Fig. 9 is a view of one form of ring and its guide strip in which the clip is formed as a part of the ring.

Similar characters of reference indicate corresponding parts throughout the different figures of the drawings.

It is highly desirable in practice that the leaves of a temporary binder shall so open as to lie flat, and it is also frequently of advantage, when book-covers are used, that they shall open back to back, as this facilitates the use of the book. Not only this, but it is also necessary, to secure the greatest efficiency in a binder of this class, that the same may be used at different times with various sizes of leaves in which the perforations or openings for the reception of the prongs or rings are differently located, or in which sometimes leaves of the same size have the perforations differently located, and also to have the temporary binder so constructed that a larger or smaller quantity of leaves may be used with the same cover, which, of course, frequently necessitates different sizes of binding rings.

The object, therefore, of the present improvement is to obtain in one binder all of the aforesaid advantages, and this in connection with a very narrow supporting means which may be mounted on and take up very little space crosswise of the book-cover. In the present instance I provide a pair of book-covers 2 furnished with the usual flexible back 3, which is supplied with this improved guiding means, shown in the present instance as a narrow tongue or strip comprising a track in the form of a slideway or guideway so narrow compared with the diameter of the rings that its width is hardly appreciable, and which track is, by some suitable means, secured to the supporting means, or, as shown in the present instance, the back member of a pair of book-covers. In the form shown in Figs. 1 and 3 this track is made of a metal member 5 of dovetail formation, pro-

vided with outturned flanges 6 at its lower edges forming a dovetail groove 7 into which a suitable piece of cloth 8 or other flexible material may be inserted, this being secured 5 therein by means of a strip 9 of some suitable material, usually of metal. By this means the strip may be secured to the back of a pair of book-covers or other suitable support, which is done in the present instance by gluing the 10 cloth strip at each side thereof under the edge of the usual leather lining 10 of the covers, so that the guideway will extend longitudinally of the book and preferably centrally thereof. Various forms of track, 15 however, may be used.

The leaf carrying rings or prongs may be of various forms. As for instance shown in Figs. 2 to 4, they may be made up of a pair of members 16, one part of which is movable 20 toward and from the other, or they may be made up as an integral member having, as shown in Fig. 7, a diagonal or oblique or other form of slot 25 for the insertion of the leaves. Each ring is shown as mounted on 25 a suitable carrying means comprising a carrier or clip 18, shown herein as of resilient formation, adapted for attachment to the particular guiding means comprising a track or guideway in connection with which it is 30 to be used. In the forms shown in Figs. 2 to 8 the clip is provided with a pair of engaging members 19 adapted to overlap the track and shown of a formation to correspond to the formation of the track. As stated, other 35 forms of tracks, and therefore other forms of clips, may be used without departing from the spirit and scope of this invention. For instance, as illustrated in Fig. 9, the ring may be provided with what may be termed 40 an integral clip, that is to say, the ring itself may be undercut on its exterior, as at 20, to form a dovetail way corresponding in shape to the shape of the track shown in Fig. 9 and adapted to slide and fit thereon without an 45 intermediate clip.

In the form shown each of the carriers or clips 18 is made of metal bent upon itself and has a somewhat similar appearance to the leaf of a hinge, the ring 16 being rigidly se- 50 cured in an opening 22 formed transversely in the carrier and secured therein by a pintle or pin 23 extending longitudinally of the carrier on the inner side of the ring. Various means may be used, however, to secure the 55 ring to the carrier. In the present instance the ring is somewhat slotted or recessed, as at 24, at the point where the pin engages the same, thereby to prevent circular movement of the ring and thus hold it against displacement. When it is desired to use a dif- 60 ferent sized ring, either larger or smaller, in the same supporting means or book-cover, it is merely necessary to slide the detachable, and therefore interchangeable, rings off the

track from either end thereof and slide on 65 the desired size of ring, thus permitting the book to be either decreased or expanded, as occasion may require. By reason of the substitution of different sizes of rings, when it is desired to use smaller or larger leaves, 70 or leaves in which the perforations are somewhat differently located from leaves previously used with the binder, it is merely necessary to adjust the rings by sliding one or more thereof toward or from each other 75 in the manner shown in dotted lines in Figs. 1 and 8. The leaves are readily inserted by moving one part of the ring or prong, as shown in Fig. 4, or by slipping them through the diagonal cut shown in Fig. 7, according 80 to whichever character of ring is used in the binder.

The present binder is particularly well adapted for price books, as well as other forms of books in which it is highly desirable 85 that the leaves shall lie flat, the very narrow track taking up but little room crosswise of the support or back of the book to which it may be attached.

From the foregoing it will be observed that 90 by means of the present mode of attachment of the rings I am able to locate the same transversely of the carriers or clips, which themselves are located in alinement longi- 95 tudinally of their track, while at the same time insuring that the fastening means by which such transverse rings are secured to the supporting means or back of a pair of book-covers will be relatively narrow, so that such fastening means will not project ap- 100 precially beyond that portion of the ring to which it is secured. Thus I am able to obtain, by very simple fastening means, all the advantages of an adjustable and inter- 105 changeable ring, while at the same time insuring that the leaves may be parted at any point and laid flat upon adjacent covers, and it will be observed that by reason of the very narrow form of the guideway the covers may be opened back to back, since the guideway, 110 when located centrally of the back, takes up but a very small portion crosswise thereof, not sufficient to prevent the covers from being opened back to back, and that while at- 115 taining this advantage I am also able to obtain in the same construction a binder in which the rings are adjustable and also removable.

I claim as my invention:

1. In a temporary binder, the combination 120 of a narrow guideway, and one or more detachable leaf-receiving rings slidably attached to said guideway.

2. In a temporary binder, the combination of a narrow guideway, and one or more read- 125 ily detachable leaf-receiving rings adjustable on said guideway.

3. In a temporary binder, the combination

of a narrow guideway of less width than the inside capacity of the rings, and one or more interchangeable leaf-receiving rings adjustable on said guideway.

5 4. In a temporary binder, the combination with the back of a pair of book-covers, of a narrow guide strip secured to such back and of less width than the inside capacity of the rings, and a plurality of detachable leaf-receiving rings adjustable on said strip.

10 5. In a temporary binder, the combination with a support, of a guideway thereon, and a plurality of leaf-receiving rings adjustable on said guideway and of greater diameter than the width of said guideway.

15 6. In a temporary binder, the combination with a support, of a guideway thereon, and a plurality of leaf-receiving rings set crosswise thereof and adjustable thereon and of greater diameter than the width of said guideway.

20 7. In a temporary binder, the combination with a book-cover, of a guideway located centrally of the back thereof and of materially less width than the back of such cover, a plurality of adjustable carriers mounted on said guideway, and rings secured one to each of said carriers crosswise thereof.

25 8. In a temporary binder, the combination with a support, of a guideway thereon, a plurality of adjustable carriers mounted on said guideway, and rings secured one to each of said carriers crosswise thereof, each of said carriers comprising a resilient clip.

30 9. In a temporary binder, the combination with a support, of a guideway thereon, a plurality of adjustable carriers mounted on said guideway, and rings secured one to each of said carriers crosswise thereof, each of said carriers comprising a resilient clip having a transverse recess therein for the reception of its ring.

35 10. In a temporary binder, the combination with a support, of a guideway thereon, a plurality of adjustable carriers mounted on said guideway, rings secured one to each of said carriers crosswise thereof, each of said carriers comprising a resilient clip having a transverse recess therein for the reception of its ring, said ring having a transverse recess, and a pin interlocking said ring and clip and extending crosswise of said ring.

40 11. In a temporary binder, the combination of supporting means, a guideway thereon, a plurality of carriers adjustable on said guideway, a ring mounted on each of said carriers crosswise thereof, and a pin for interlocking each ring with its carrier.

45 12. In a temporary binder, the combination with a support, of a dovetail guideway thereon, and a plurality of adjustable rings having a dovetail resilient clip fitting said guideway for movement thereon.

50 13. In a temporary binder, the combina-

tion with a support, of a guideway thereon, and a plurality of detachable and shiftable leaf-receiving rings mounted on said guideway crosswise and projecting at each side thereof.

14. In a temporary binder, the combination with supporting means, of a dovetail guideway thereon, and a plurality of leaf-receiving rings having dovetail means fitting said guideway whereby the rings are shiftable thereon.

15. In a temporary binder, the combination of narrow guiding means, and a plurality of shiftable leaf-receiving rings having carrying means, one such means projecting into the other.

16. In a temporary binder, the combination of narrow guiding means, and a plurality of detachable leaf-receiving rings having carrying means, one such means of resilient formation and one overlapping the other.

17. In a temporary binder, the combination of narrow guiding means, and a plurality of detachable and adjustable leaf-receiving rings having carrying means, one such means of resilient formation and one overlapping the other.

18. In a temporary binder, the combination with a support, of a plurality of leaf-receiving rings, and means for securing said rings to said support and comprising a groove formed member, a binding strip, and flexible material clamped in the groove of said member between it and said binding strip.

19. In a temporary binder, the combination of a support, a guideway carried thereby, and means for securing said guideway to said support and comprising flexible material clamped by said guideway.

20. In a temporary binder, the combination of a support, a guideway carried thereby, means for securing said guideway to said support and comprising flexible material clamped by said guideway, and leaf-receiving rings adjustable on said guideway.

21. In a temporary binder, the combination of a support, a guideway carried thereby, means for securing said guideway to said support and comprising flexible material clamped by said guideway, and leaf-receiving rings mounted on and detachable from said guideway.

22. In a temporary binder, the combination of a support, a guideway carried thereby, means for securing said guideway to said support and comprising flexible material clamped by said guideway, and leaf-receiving rings adjustably mounted on and detachable from said guideway.

23. In a temporary binder, the combination with supporting means, of a strip formed guideway carried thereby, and a plurality of detachable leaf-receiving rings rigidly but ad-

justably clamped to said guideway crosswise thereof to project beyond each side thereof.

24. In a temporary binder, the combination with a pair of book-covers having a
5 back, of a longitudinally extending narrow track of less width than the inside diameter of the rings located on said back, and a plu-

ality of detachable leaf-receiving rings rigidly but adjustably clamped crosswise of said guideway.

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