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PATENTED JAN. 8, 1907.

L. M. MORDEN.
BOOK RING WITH LOCKING ARMS.
APPLICATION FILED FEB. 17, 1906.

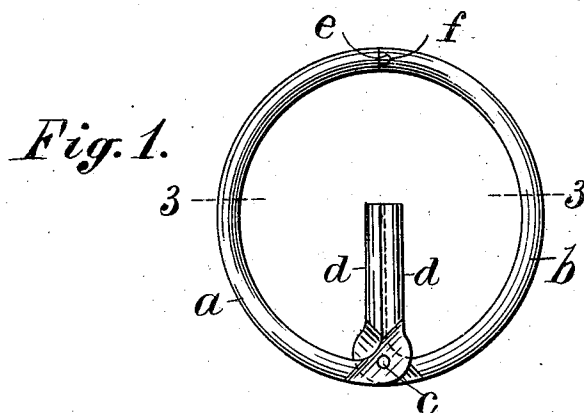
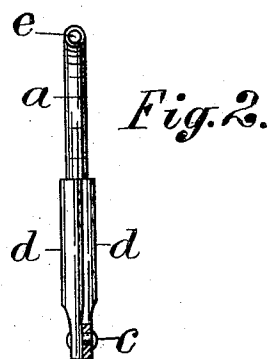
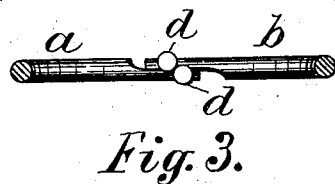
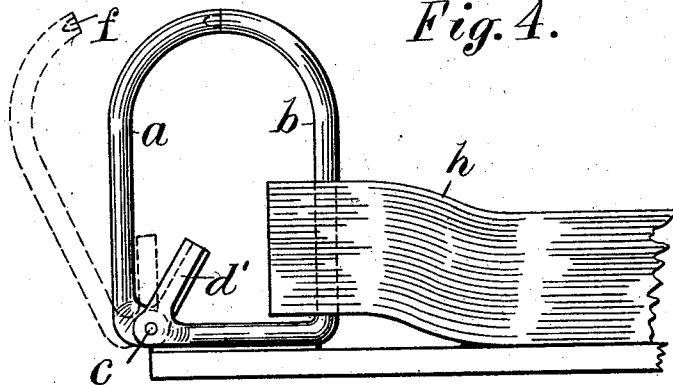


Fig. 5.



Fig. 4.



Witnesses:
Le. Lee,
Bernard Marcus

Inventor.
Lucena M. Morden,
per Thomas S. Coane, Atty.

UNITED STATES PATENT OFFICE.

LUCENA M. MORDEN, OF WATERBURY, CONNECTICUT.

BOOK-RING WITH LOCKING-ARMS.

No. 841,034.

Specification of Letters Patent.

Patented Jan. 8, 1907.

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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 at 59 Grand street, Waterbury, county of New Haven, and State of Connecticut, have invented certain new and useful Improvements in Book-Rings with Locking-Arms, fully described and represented in the following specification and the accompanying drawings, forming a part of the same.

The object of this invention is to furnish a cheap construction for a book-ring, and the invention will be understood by reference to the annexed drawings, in which—

Figure 1 is a side elevation. Fig. 2 is an inner view of the locking-arms and one of the ring-sections, the opposite ring-section being cut adjacent to the pivot and removed. Fig. 3 is a horizontal section on line 3 3 in Fig. 1. Fig. 4 shows a ring with flattened base and the joint applied to the corner of the base. Fig. 5 is an inner view of the locking-arms and one of the ring-sections of the ring shown in Fig. 4, the opposite ring-section being cut adjacent to the pivot and removed.

The rings are shown of exaggerated size to illustrate the construction clearly.

a designates one of the ring-sections, and *b* the opposite section, each section being shown formed of round wire and flattened to form a joint provided with rivet *c*.

Integral arms *d* are shown extended inwardly from the pivot, being left in their original round-wire form where shown at *d* in Figs. 1 to 3 and flattened and bowed slightly outward where shown at *d'* in Fig. 5.

The free ends of the rings are shown provided, respectively, with a stud *e* and socket *f*, which hold them from lateral displacement when closed, and the locking-arms are arranged to contact with one another when the ring is closed and to press upon one another elastically, so as by their friction to resist the opening of the ring and hold it normally and securely closed. The elasticity of the rounded arms may be utilized to spring them past one another when closed, as shown in Fig. 3, so as to forcibly resist the opening movement or it may be employed to spring apart flattened bowed arms, the opposed faces of which are gradually crowded apart as the ring is closed, as shown in Fig. 5. The adjustment of the arms can be made such in that case as to hold the ring closed with the

required degree of force and permit it to be opened when required.

The wire from which the rings are made may be round, half-round, or of any other required cross-section, as the essential feature of the invention is the formation of the integral arms upon the ring-sections adjacent to the joint. By projecting the locking-arms inwardly the ring remains readily in one position upon the sheets of paper and does not tend to shift around, as in other constructions, which shifting is liable to bring the proper opening of the sections among the leaves, and thus necessitate the turning of the ring around by the fingers to find such opening when it is desired to insert or remove the leaves.

The ring shown in Fig. 1 is completely circular, as the joint is formed to preserve upon its outer side the continuous curve of the ring, while the oblique ring shown in Fig. 4 has a flat base, which adapts it to be secured upon a base-board *g* with similar rings to form a temporary binder or file for loose sheets, (shown at *h*.)

Having thus set forth the nature of the invention, what is claimed herein is—

1. A circular book-ring comprising two curved sections jointed together, having integral locking-arms extended into the space within the ring and operating by contact with one another when the ring is closed, to hold the sections in their closed position.

2. A book-ring comprising two sections jointed together, and having integral locking-arms extended inwardly from the joint and arranged to press laterally against one another when the ring is closed.

3. A book-ring comprising two sections jointed together and having integral locking-arms extended inwardly from the joint, the arms having flattened faces arranged to press elastically upon one another when the ring is closed.

4. A book-ring comprising two sections formed of wire jointed together and flattened at the joint and having integral locking-arms extended inwardly from the joint, the joint being shaped to preserve the exterior curvature of the ring and the arms being flattened and bowed outwardly, and their opposed faces arranged to press elastically upon one another when the ring is closed.

5. A book-ring comprising two sections

jointed together and having integral locking-
arms extended inwardly from the joint and
arranged to press laterally against one an-
other when the ring is closed, the free ends of
5 the arms being provided with a stud and
socket to engage and prevent lateral dis-
placement when closed.

In testimony whereof I have hereunto set
my hand in the presence of two subscribing
witnesses.

LUCENA M. MORDEN.

Witnesses:

CLARA L. DODGE,
ANNA McDONALD.