P. MacMASTER.

RENEWABLE LEAF BOOK.

APPLICATION FILED MAR. 29, 1913.

1,074,510.

Patented Sept. 30, 1913.

2 SHEETS—SHEET 1.

Fig.1.

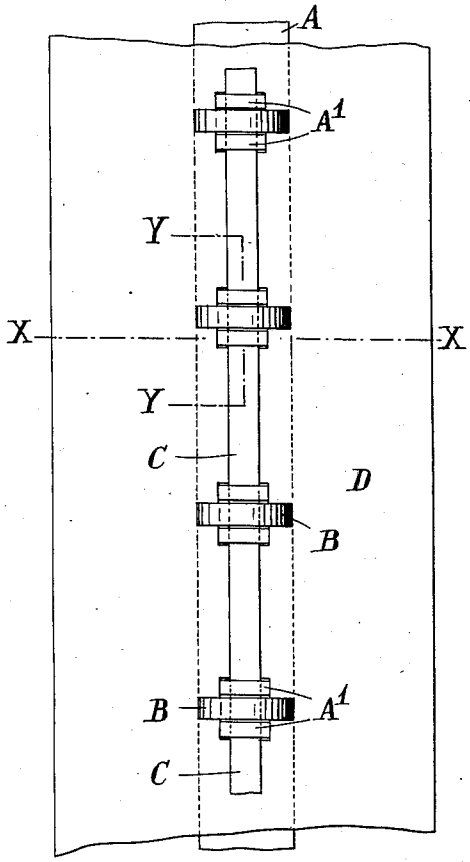


Fig.2.

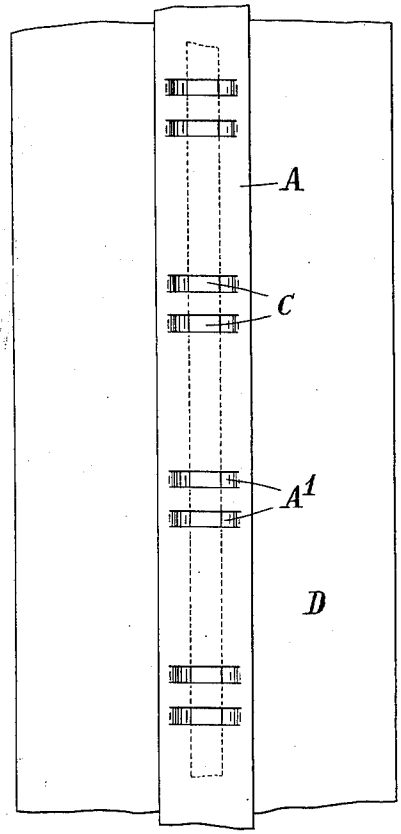


Fig.3.

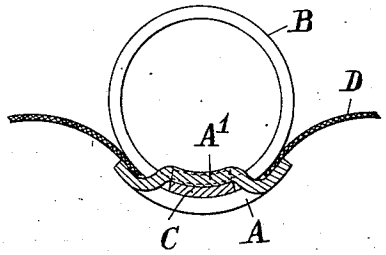
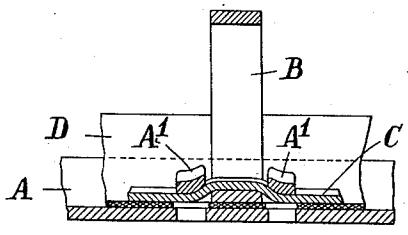


Fig.4.



Witnesses

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2 SHEETS—SHEET 2.

Fig. 5.

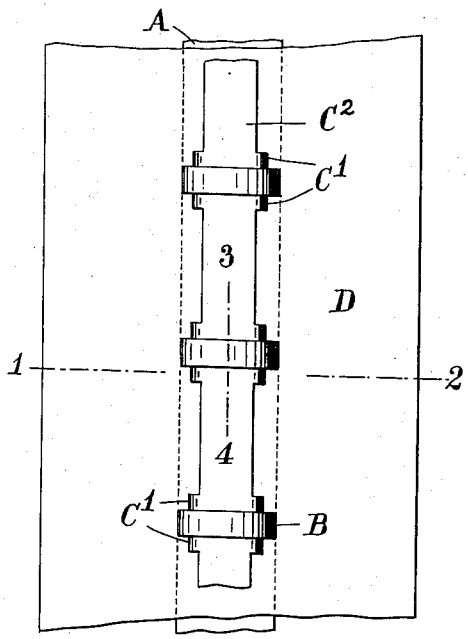


Fig. 6.

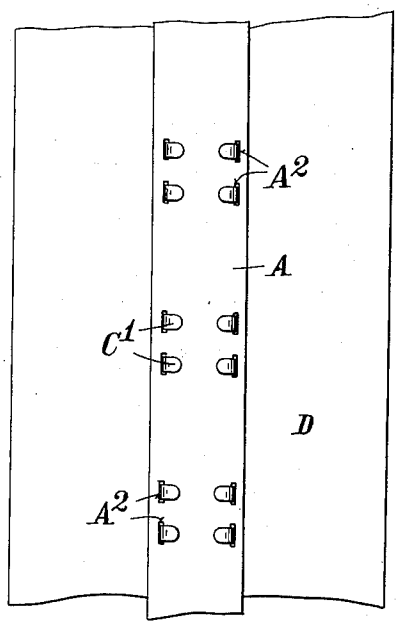


Fig. 7.

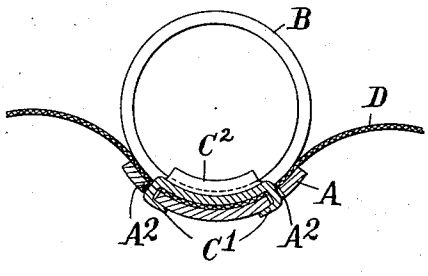
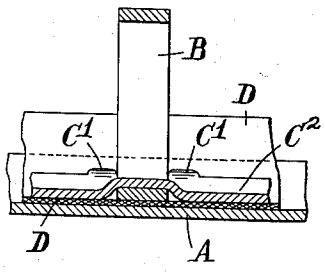


Fig. 8.



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PETER MACMASTER, OF LONDON, ENGLAND.

RENEWABLE-LEAF BOOK.

1,074,510. Specification of Letters Patent. Patented Sept. 30, 1913.

Application filed March 29, 1913. Serial No. 757,605.

To all whom it may concern:

Be it known that I, PETER MACMASTER, a subject of the King of Great Britain, residing at 25 Finsbury street, in the county of London, England, engineer, have invented new and useful Improvements in Renewable-Leaf Books, of which the following is a specification.

This invention relates to renewable leaf pocket and other books of the kind commonly called ring books, and provides an improved construction of ring mounting for such books.

The present invention consists in the combination of a plurality of rings, two strips of metal arranged one inside and the other outside the rings, means for fastening the strips together to tightly grip the rings between them, and means integral with the strips for preventing twisting of the rings.

According to one form of my invention one of the metal strips has portions of itself punched up to form pairs of loops suitably spaced apart, the two loops forming each pair being arranged to receive and support one of the rings between them; the other metal strip extends through and is gripped by said loops which are pressed tightly thereon.

In a modification the loops are replaced by tongues on one strip passing through holes in the other strip and clenched over to lock the strips together.

The invention will now be described with reference to the accompanying drawings which illustrate how the present invention may be carried into practice.

In these drawings: Figure 1 is a face view of the metal ring fitting. Fig. 2 is a back view of the same. Fig. 3 is a section on the line X, X, Fig. 1 drawn to a larger scale. Fig. 4 is a longitudinal section on the line Y, Y, Fig. 1 also drawn to a larger scale. Fig. 5 is a face view of a modified form of ring fitting. Fig. 6 is a back view of the same. Fig. 7 is a section on the line 1—2, Fig. 5, and Fig. 8 is a longitudinal section on the line 3—4 Fig. 5, both sections being drawn to a larger scale.

Referring to Figs. 1 to 4 the metal strip A has portions of itself punched up by a suitable die to form a number of pairs of loops A′, A′, the two loops of each pair being spaced the required distance apart to receive and to support laterally between them one of a series of rings B. Said rings B are held in place by means of a strip of metal C which extends through the rings and through all the loops A′, A′, and which is secured in place by pressing or hammering the loops down on to the strip. The loops serve to insure correct alinement of the rings, and also support the rings laterally and prevent them from twisting or moving. The cloth or canvas D, to which the covers of the book are pasted or otherwise secured, is suitably perforated and placed over the loops before the rings are assembled and is firmly gripped between the metal strips.

It will be appreciated that the punching up of the loops A′, A′, by means of a die involves no waste of material and at the same time enables the rings to be quickly assembled in their correct positions. The rings may be cut from a metal tube which reduces waste to a minimum. If desired split rings may be used.

In the modified construction illustrated in Figs. 5 to 8 the strip C^2 is formed with tongues C′ which when the parts of the mounting are assembled are passed through holes A^2 in the strip A and bent to clench the strips together. The tongues C′ are arranged in groups of four suitably spaced apart and serve to support the rings against lateral movement and further enable the latter to be assembled rapidly and accurately as in the construction described above.

I claim:

1. In a ring mounting for a renewable leaf ring book the combination of a plurality of rings, two strips of metal arranged one inside and the other outside the rings, pairs of loops punched up from one of said strips each pair of loops being suitably spaced to receive a ring between them and to form lateral supports therefor, the other of said strips passing through said loops, and being retained by the loops.

2. In a ring mounting for a renewable

leaf ring book the combination of a plurality of rings, two strips of metal arranged one inside and the other outside the rings, and means integral with the strips for preventing twisting of the rings, and for fastening the strips together to tightly grip the rings between them, and a strip of fabric outside the rings and gripped between the two strips of metal.

PETER MACMASTER.

Witnesses:
GEORGE HARRISON,
G. DONALD HARRISON.