Sept. 10, 1929. A. POLKKO 1,728,078

LOOSE LEAF BOOK

Filed July 5, 1927

Fig.1.

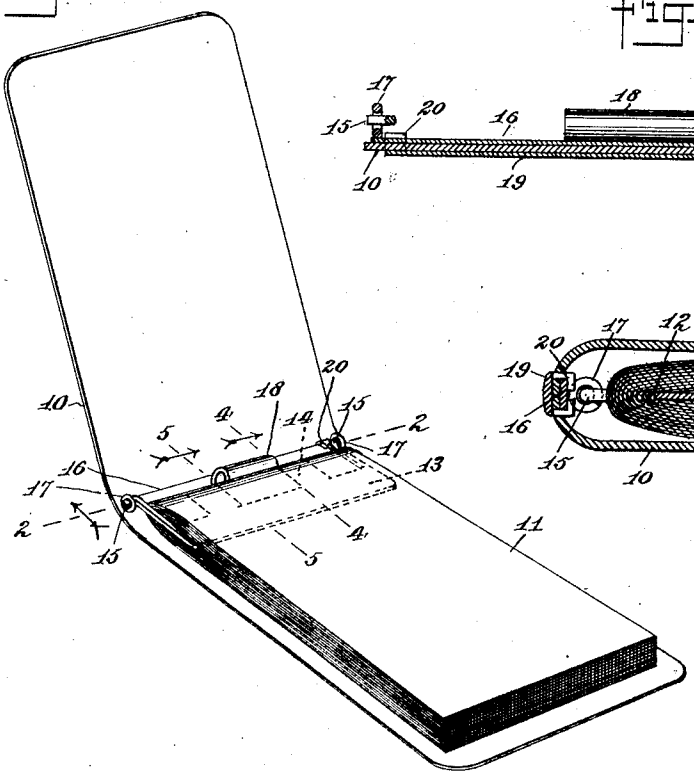


Fig.2.

Fig.3.

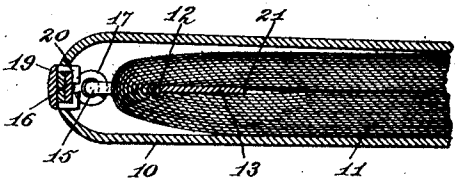


Fig.4.

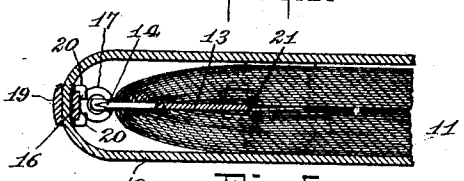


Fig.5.

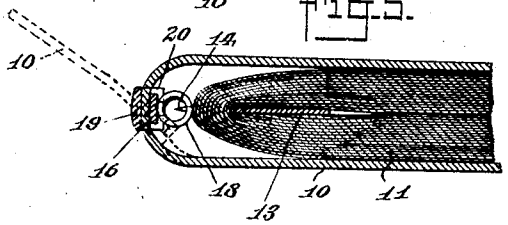


Fig.6.

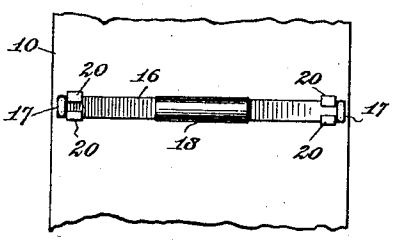
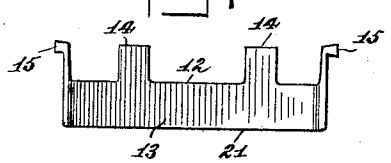


Fig.7.



WITNESSES

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UNITED STATES PATENT OFFICE.

ANTTI POLKKO, OF BROOKLYN, NEW YORK.

LOOSE-LEAF BOOK.

Application filed July 5, 1927. Serial No. 203,539.

This invention relates to loose leaf books, and has especial reference to the means for holding the leaves of the book.

Some of the objects of the present invention are: to provide a loose leaf book with improved leaf-holding means which serves advantageously for pocket size books or pads; to provide leaf-holding means of practical construction for a book with a flexible cover; to provide leaf-holding means which will not make the book bulky at the back; and to provide a loose-leaf holding means which is simple of construction and which is inexpensive to manufacture.

The nature of the invention and its distinguishing features and advantages will appear when the following specification is read in connection with the accompanying drawing, in which—

Figure 1 is a perspective view of a loose leaf book embodying the present invention, the book being shown with one of the covers opened.

Fig. 2 is a sectional view taken on the line 2—2 of Fig. 1.

Fig. 3 is an enlarged sectional view, the section being taken on the line 3—3 of Fig. 2.

Fig. 4 is an enlarged sectional view taken on the line 4—4 of Fig. 1.

Fig. 5 is an enlarged sectional view taken on the line 5—5 of Fig. 1.

Fig. 6 is a view of the mounting for the loose-leaf carrier.

Fig. 7 is a side elevation of the loose-leaf carrier.

The present invention essentially involves the use of a foldable cover 10 of suitable flexible material such as leather capable of being folded upon itself to provide the usual cover sections, and a multiplicity of blank sheets 11 which are folded upon themselves to provide the usual leaves. In accordance with the invention there is provided a carrier 12, of metal, preferably steel. The carrier 12 consists of a plate 13 of the proper proportion, substantially flat, and having cutters 14 along one edge, intermediate the ends of the plate 13 and spaced from each other, and pintles 15 respectively at the opposite ends of the plates 13 projecting from the edge of the plate 13 having the cutters 14. Each of the pintles 15 is adapted to be sprung or flexed from a normal position. A mounting 16 for the carrier 12 is employed. The said mounting consists of a narrow plate, preferably of metal, having eyes 17 respectively at the opposite ends thereof. The said mounting 16 also has arranged centrally thereof an abutment or stop 18 for a purpose to appear. The mounting 16 is held in place by means 19 consisting of a narrow plate substantially similar in size to the size of the plate 16, and is provided with bendable clips 20 arranged in pairs, there being a pair of clips 20 at each end of the plate 19.

In order to retain or secure the mounting 16 in place at the fold of the cover 10, the clips 20 on the plate 19 are forced through a medial or fold portion of the cover 10 from the outside. The plate 16 is then laid in a position on the inside of the fold portion of the cover 10 opposite the plate 19, and the clips 20 are then bent over portions of the plate 16 to securely hold it in place.

In order to hold the sheets 11 in place in folded condition, the cutters 14 of the carrier 12 are caused to puncture or cut the sheets 11 at a medial point or fold line. This presents a multiplicity of leaves in book formation. The pintles 15 on the carrier plate 13 are then flexed from a normal disposition, and are sprung into the eyes 17 respectively of the plate 16. The sheets of leaves 11 will then be held in place to be turned as may be desired, and will be conveniently accessible for making the usual notations. The abutment or stop 18 engages the bight or fold portion of the outermost sheet 11, and thus prevents all of the sheets from being separated from the cutters 14. The abutment or stop 18 is of a length to fit between the cutters 14 and prevents movement of the carrier 13 in a longitudinal direction with respect to the mounting 16, thus taking pressure off the pintles 15.

The plate 13 of the carrier 12 has a straight edge 21 along which the sheets may be torn with a straight edge when it is desired to remove one of the leaves.

From the foregoing it will be apparent that there has been described a leaf holding means for a book or pad, which is of simple construction, which will effectively hold a multiplicity of sheets to present a multiplicity of leaves in book formation, and which performs the function of readily associating the sheets with the cover of the book, and for readily detaching the sheets.

I claim:

1. The combination with a foldable flexible book cover, of a carrier for loosely carrying folded sheets of paper, a rigid mounting substantially equal in length and secured to the fold of the cover, and means on the carrier which coacts with means on the mounting for detachably connecting the carrier with the mounting for pivotal movement.

2. The combination with a foldable flexible book cover, of a carrier for loosely carrying folded sheets of paper, a rigid mounting substantially equal in length to the fold of the cover, means having portions which extend through the fold and which engage the mounting to secure the mounting to the fold of the cover, and means on the carrier which coacts with means on the mounting for detachably connecting the carrier with the mounting.

3. The combination with a book cover, of a sheet carrier consisting of a plate having impaling members and pintles, the impaling members adapted to extend through the medial folds of sheets of paper from within the same, a mounting consisting of a separate narrow rigid plate having eyes respectively at the ends thereof, said pintles detachably engageable respectively in said eyes to pivotally connect the carrier with said mounting; and means securing the mounting to the fold portion of the cover.

4. In a loose leaf book, a book cover, a rigid carrier adapted to engage a multiplicity of folded sheets to present a multiplicity of leaves in book formation, a rigid mounting secured to the back of said cover, and means on the carrier which coacts with means on the mounting for detachably connecting the carrier with the mounting for pivotal movement.

5. In a loose leaf book, a sheet carrier consisting of a plate having impaling members and pintle carrying members, the impaling members being adapted to extend through the medial folds of sheets of paper, a mounting consisting of a separate narrow rigid plate having eyes respectively at the ends thereof, the pintles of said pintle carrying members being detachably engageable respectively in said eyes to pivotally connect the carrier with said mounting

ANTTI POLKKO.