

J. WALKER, JR.
BOOK AND LEAVES THEREFOR.
APPLICATION FILED MAR. 24, 1911.

1,018,459.

Patented Feb. 27, 1912.

Fig. 1.

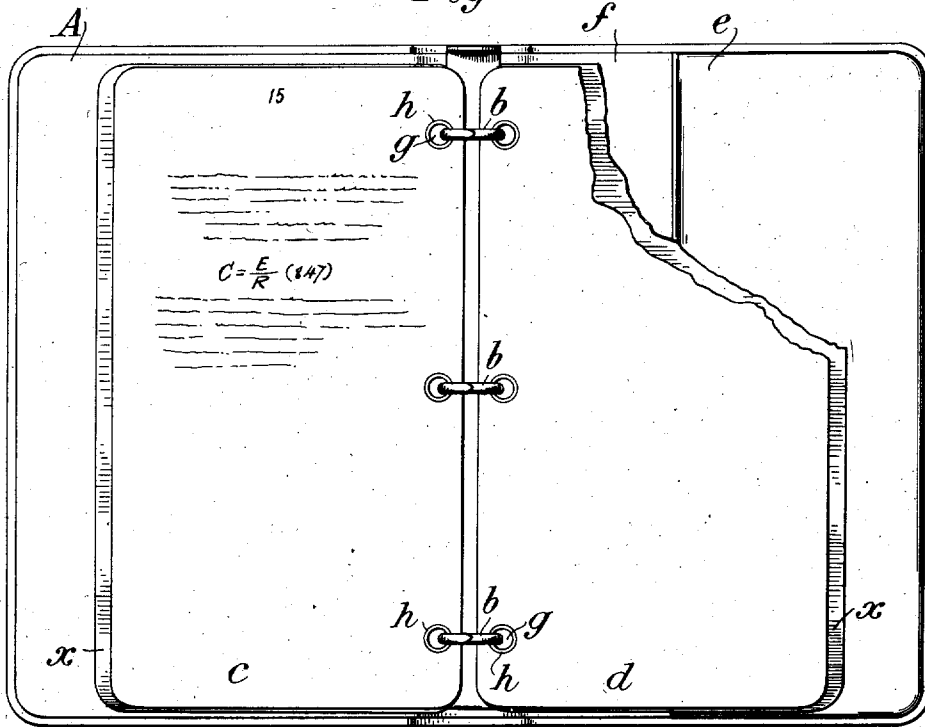


Fig. 2.

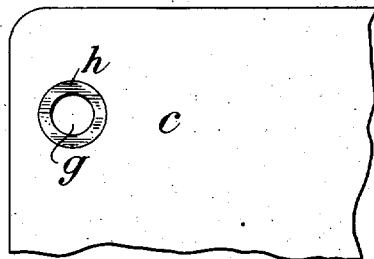
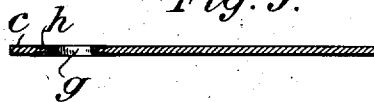


Fig. 3.



WITNESSES:

Fred White
Rose McGuire

INVENTOR :

John Walker, Junior,
By Attorneys,
Fraser, Tunn & Meyers

UNITED STATES PATENT OFFICE.

JOHN WALKER, JR., OF LONDON, ENGLAND.

BOOK AND LEAVES THEREFOR.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, JOHN WALKER, JR., a subject of the King of Great Britain, residing in London, England, and whose post-office address is Farrington House, Warwick Lane, London, England, by occupation a manufacturer, have invented certain new and useful Improvements in Books and Leaves Therefor, of which the following is a specification.

This invention relates to "loose leaf" books and to the sheets or pages used in such books, and aims to provide certain improvements therein.

In reference books, such as used by professional men, it is frequently desirable to make change and additions as the knowledge on different subjects advances and as the requirements of the user demand.

It is one of the objects of the present invention to provide such a book wherein the matter is printed on separate sheets and bound in a suitable binder which will permit of the sheets being readily removed, there preferably being separate blank sheets interspersed at appropriate intervals, on which the user can make such notes supplementing the text as he may desire. New sheets can be easily removed and replaced by others containing revised or additional matter. The binder or cover is also preferably provided with a pocket wherein additional blank sheets can be carried.

In books of this character it is found in practice that, in turning over the leaves, the latter stick on the binding rings or wires, probably due, in large part, to the friction of the leaves on the rings. This results in tearing of the leaves at the points where the rings pass through them.

My invention further aims to obviate this difficulty and at the same time strengthen the sheet at this point. This I accomplish by providing the binding perforations of each sheet with a metallic eyelet or anti-friction lining, and, in order not to increase the bulk of the sheet, this eyelet or lining should be practically flush with the face of the sheet of paper.

For a detailed description of the invention reference will be had to the accompanying drawing, wherein:

Figure 1 illustrates a book embodying my invention shown lying open, and with a portion of the pages broken away at one of the corners to disclose the pocket. Fig. 2 is a

view of a portion of a sheet, showing in enlarged detail, the construction of the binding perforation, and Fig. 3 is a sectional view of the portion of the sheet illustrated in the preceding figure.

In the drawings, A indicates a "loose-leaf" binder of any suitable form, provided with binding rings or wires *b*. On these rings are bound the separate sheets or pages *c* on which is printed the text, etc., of the book. *d* indicates blank separate sheets or leaves which are preferably bound by said rings and interspersed at appropriate intervals among the printed sheets *c*. These sheets may be readily replaced or removed, as desired. In order to protect the bound sheets, end sheets *x, x*, of stout material are preferably placed between them and the cover. There is also preferably provided a pocket *e* on one of the covers *f* of the book for carrying loose blank leaves or other similar articles.

Each of the sheets is provided with preferably a plurality of binding perforations *g*, through which the binding rings *b* of the binder are adapted to pass. These perforations are provided with metallic eyelets or linings *h*, which serve to reduce the friction between the leaves and the binding rings. These bindings or eyelets *h* are formed of very thin sheet metal and are passed through the perforations *g* and bent over and upon the sheet. These bent-over portions or flanges of the eyelet with the sheet of paper between them are pressed together with great pressure and are thereby indented into the surface of the paper. Being thus indented into the sheet, the bent-over portions lie practically flush therewith. Sheets of this kind may, therefore, be superposed with little if any increase in bulk due to the eyelets. Such sheets furthermore slip easily on the filing-rings and do not stick or bind when turned over in the binder. Tearing of the leaves by the weight or action of those superposed upon them is thereby largely obviated. These eyelets also strengthen the sheet and make it less liable to tear under direct pull at the filing perforations or to wear at that point under repeated turning of the sheets.

While I have illustrated and described one embodiment of the invention, I do not desire to be understood as limiting myself thereto, as changes and modifications may be made therein without departing from the spirit of the invention.

What is claimed is:

1. A book comprising a cover, binding-
means capable of being readily fastened and
unfastened, separate sheets having printed
5 matter thereon and separate blank sheets in-
terspersed appropriately among said printed
sheets, said sheets being provided with bind-
ing perforations through which said bind-
ing means pass, said perforations having
10 metallic eyelets therein, the bent-over por-
tions of the eyelets being embedded in the
faces of the sheets so as to lie substantially
flush therewith.
2. A sheet of paper for loose leaf binders
15 having binding-perforations therein and
metallic eyelets or linings in said perfora-
tions, the bent-over edges of said eyelets be-
ing indented in the faces of the sheet so as
to lie substantially flush therewith.
- 20 3. A sheet of paper for loose leaf binders
having binding-perforations therein, and

metallic eyelets or linings in said perfora-
tions, the bent-over edges of said eyelets be-
ing indented in the faces of the sheet so as
to lie substantially flush therewith, said eye- 25
lets being made of very thin sheet metal.

4. A book comprising a cover, binding
means capable of being readily fastened and
unfastened, and sheets provided with bind-
ing perforations through which said bind- 30
ing means pass, said perforations having
metallic eyelets therein, the bent-over por-
tions of the eyelets being embedded in the
faces of the sheets so as to lie substantially
flush therewith. 35

In witness whereof, I have hereunto
signed my name in the presence of two sub-
scribing witnesses.

JOHN WALKER, JUN.

Witnesses:

HENRY HAWKINS RUTTY,
ROBERT MILTON SPEARPOINT.