

H. B. BRISTOL.
 LEAF CARRIER FOR LOOSE LEAF BINDERS.
 APPLICATION FILED NOV. 21, 1910.

1,023,715.

Patented Apr. 16, 1912.

4 SHEETS-SHEET 1.

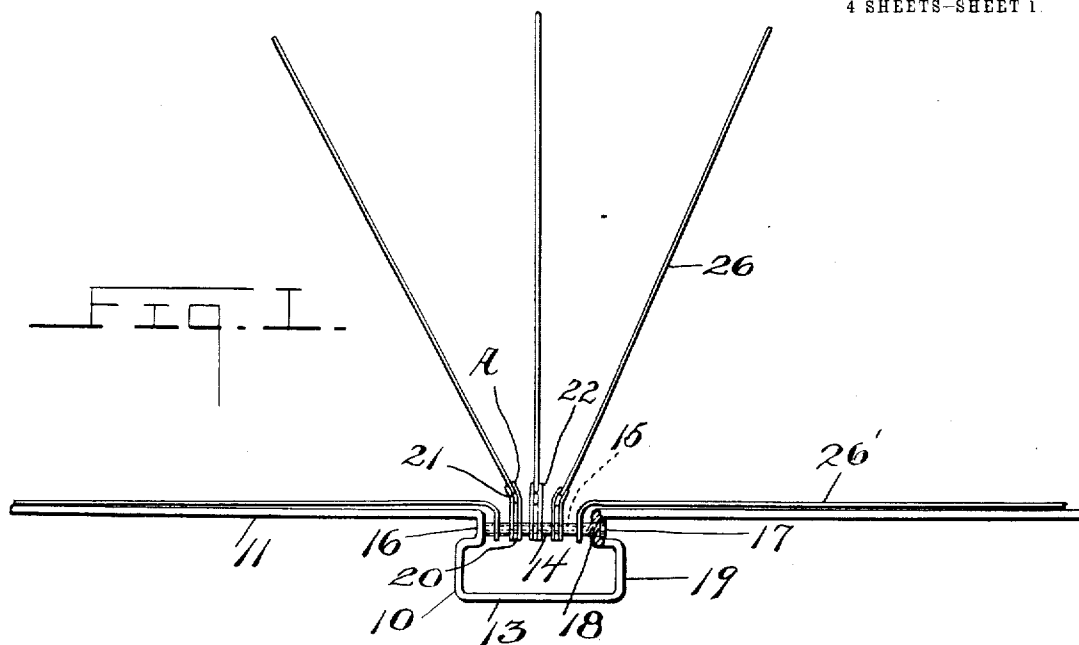


FIG. 2. FIG. 3.

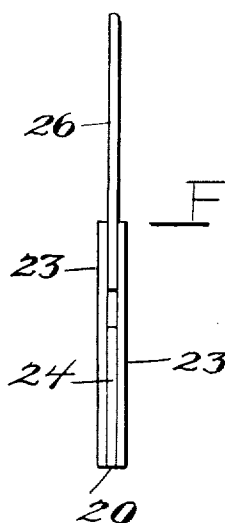
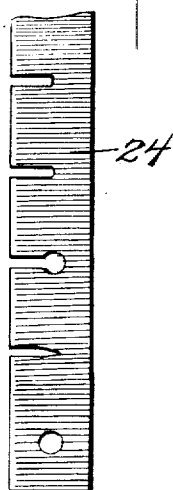
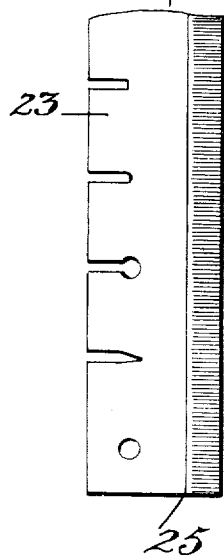


FIG. 4.

Witnesses

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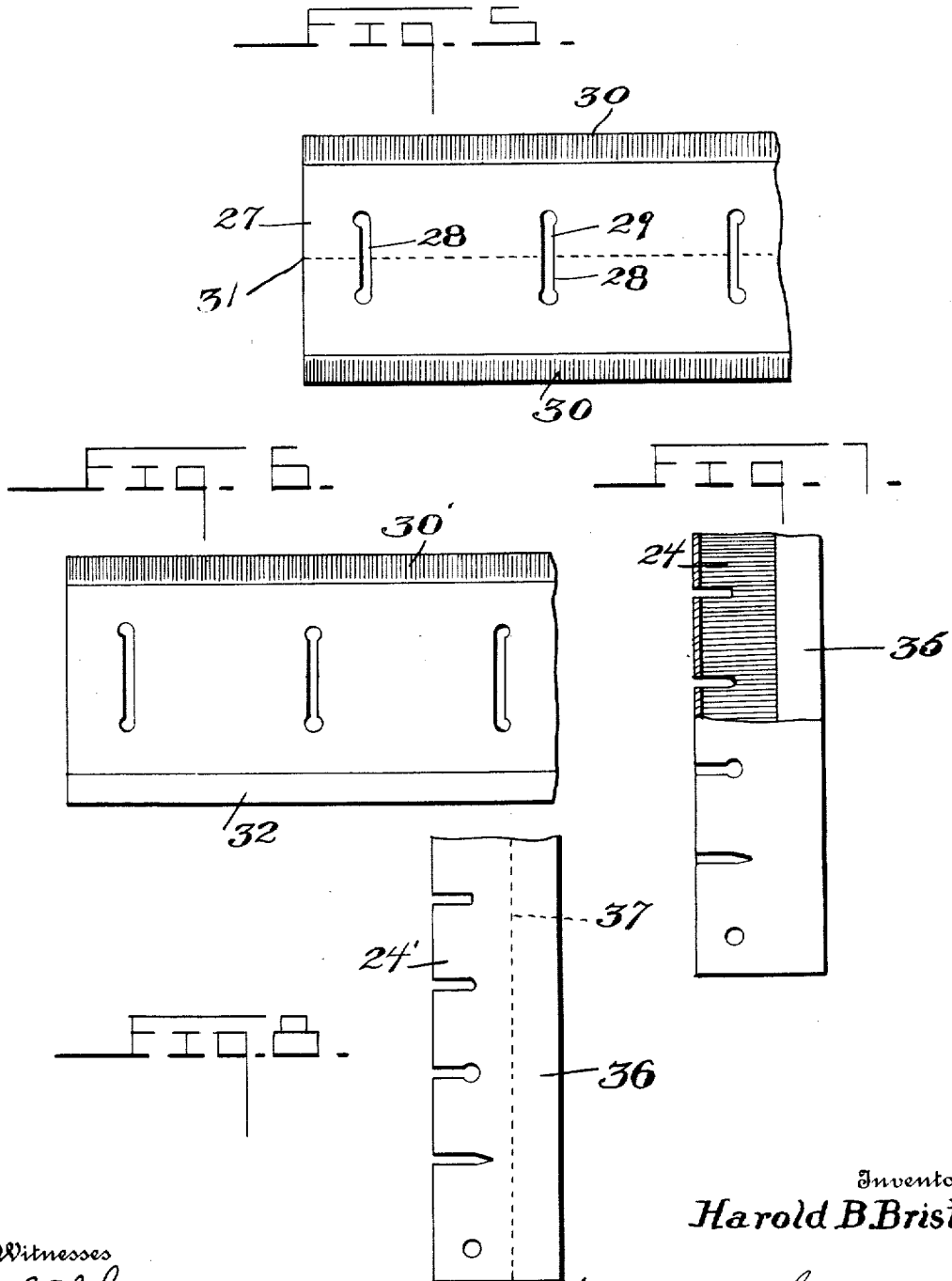
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4 SHEETS-SHEET 3.

FIG. 10.

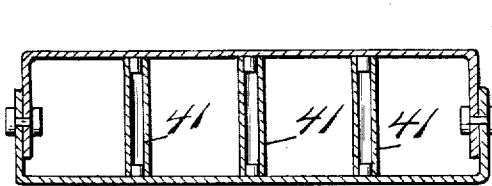
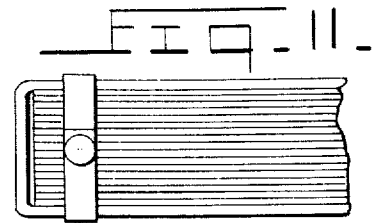
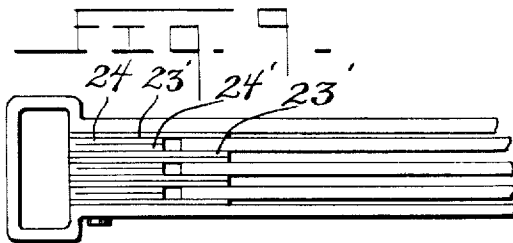
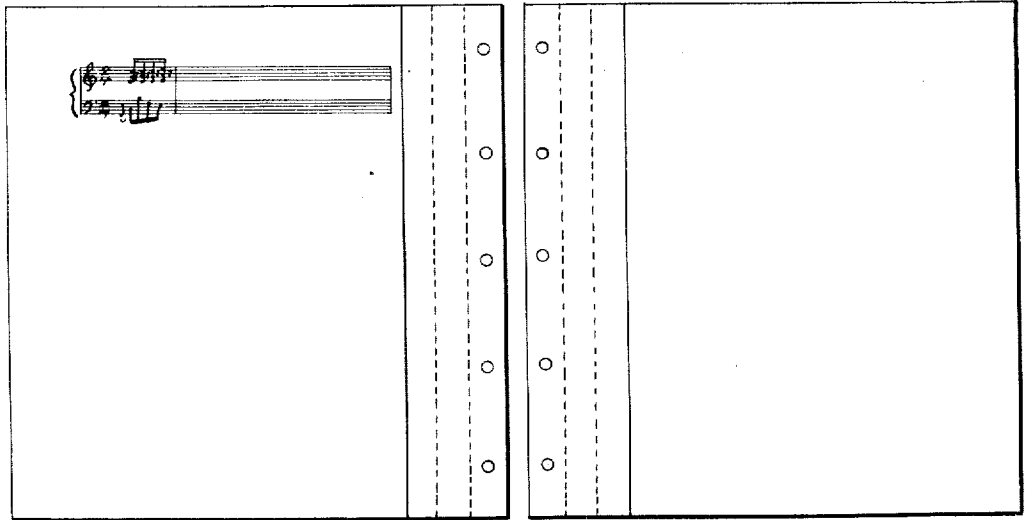
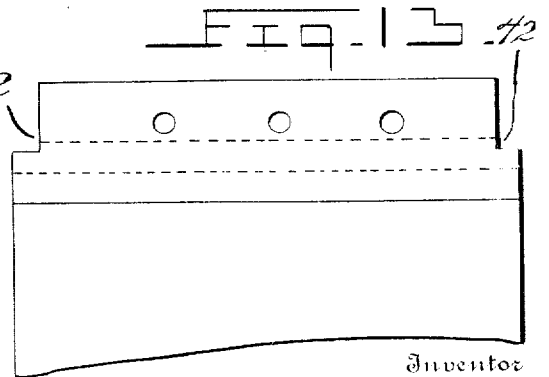


FIG. 12.



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4 SHEETS-SHEET 4.

FIG. 14.

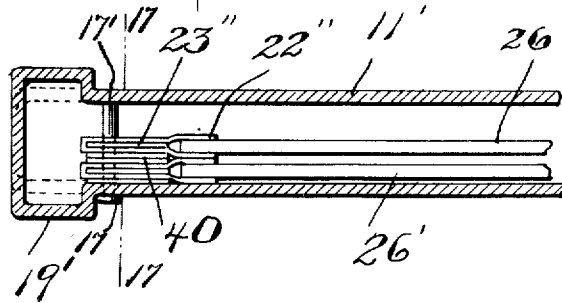


FIG. 15.

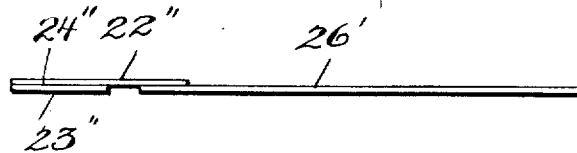


FIG. 16.

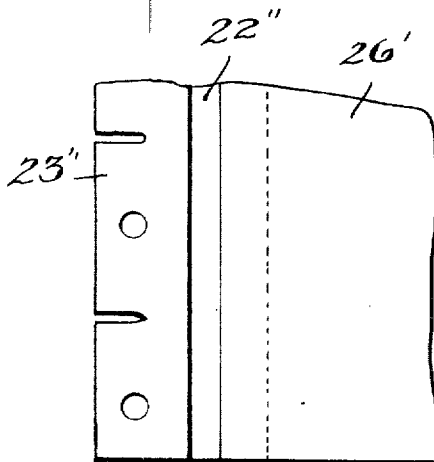
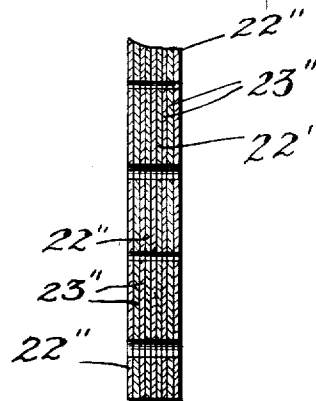


FIG. 17.



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UNITED STATES PATENT OFFICE.

HAROLD B. BRISTOL, OF MAPLEWOOD, MISSOURI.

LEAF-CARRIER FOR LOOSE-LEAF BINDERS.

1,023,715.

Specification of Letters Patent.

Patented Apr. 16, 1912.

Application filed November 21, 1910. Serial No. 593,430.

To all whom it may concern:

Be it known that I, HAROLD B. BRISTOL, a citizen of the United States, residing at Maplewood, in the county of St. Louis and State of Missouri, have invented certain new and useful Improvements in Leaf-Carriers for Loose-Leaf Binders, of which the following is a specification.

This invention relates to loose leaf binders, and more particularly to means for binding music, periodicals and the like, or loose sheets of any kind.

Another object is to provide a carrying strip for sheets not having sufficient margin to allow punching and securing thereof directly in a binder.

A further important object is to provide a carrying strip adapted to be manufactured in an economical manner.

Many efforts have been made to provide suitable means for binding loose leaves such as music, prints or other sheets containing printed matter or illustrations which have not a sufficient margin or are too valuable to be perforated for engagement in the usual loose leaf binders, of which there are many forms in use.

It is an object of this invention to provide a binder strip adapted to be secured to sheets of various kinds for support thereof in a loose leaf binder, which supporting strips are provided with gummed portions protected in a novel manner from casual adhesive engagement with other surfaces than those of sheets to be supported.

A further object is to provide a means for compensating for the thickness of the leaves when inclosed in the binder.

Other objects and advantages will be apparent from the following description, and it will be understood that changes in the specific structure shown and described may be made within the scope of the claims without departing from the spirit of the invention.

In the drawings: Figure 1 is an edge view of a series of sheets secured in a loose leaf binder by means of my device, showing the flexible character of the carrier. Fig. 2 is a plan view of the support member detached. Fig. 3 is a similar view of the filler member. Fig. 4 is an end view of the carrier member in assembled order. Fig. 5 is a plan view of a modified form of blank for the holder member. Fig. 6 is a further modification. Fig. 7 illustrates a carrier assembled from

the blanks illustrated in Figs. 5 and 6, with the addition of a separator for preventing cohesion between the gummed surfaces. Fig. 8 is a further modification of the device somewhat similar to that illustrated in Fig. 7, in which the separator member is made a detachable part of the filler. Fig. 9 is an edge view of a binder having leaves secured therein with the present device and illustrating the use of a thickener where leaves of unusual thickness are to be secured. Fig. 10 is a view of the form of binder shown in Fig. 4 applied to sheets of music. Fig. 11 is an edge view of a further modification. Fig. 12 is a transverse section therethrough. Fig. 13 is a view of one of the sheets adapted for use in the binder illustrated in Figs. 11 and 12. Fig. 14 is a vertical longitudinal sectional view through a modification of the device. Fig. 15 is an edge view of a leaf showing a modification of hinge and filler. Fig. 16 is a bottom plan view of the form shown in Fig. 15. Fig. 17 is a vertical section on the line 17—17 of Fig. 14.

Referring to the drawings, there is illustrated a binder 10 including the cover board 11 carrying the hinged back section 13, carrying tubes and posts 14 and 15 the latter telescoping into the former and adapted to be inserted through the usual openings or slots in loose leaves or the carrier members of present inventions. The back hinged section 13 is provided with inset portions 16, having suitable perforations therethrough in which the posts 15 are adjustable on one side, the posts having suitable heads 17 projecting outwardly of the portion 16 and having threaded portions 18 engaged in the openings through the portions 16. There is thus provided outwardly of the heads of the posts an enlarged portion 19 adapted to prevent contact of the post heads with polished surfaces.

Engaged detachably in the binder are my carrier members A, each of which comprise the anchor portion 20 which may be perforated or provided with any of the usual forms of slots used in loose leaves for use with such devices, or may be left without perforations, to be clamped in any of the usual form of clamp binders. Extending from the anchor portions there is the flexible hinge portion 21, outwardly of which is the gummed attaching portion 22. The carrier members may be formed in various manners, and as illustrated in Figs. 2, 3 and

4 each comprises two support members 23, of similar form and a filler member 24 carried therebetween. The filler member 24 is secured between the support members in any suitable manner, as by the gummed face B, the three coengaged portions thus forming the anchor portion 20. The inner surfaces of the members 23 are gummed along their forward edges beginning a spaced distance from the forward edge of the filler 24, a suitable printed line 25 being formed upon the members 23 at the inner limit of the gummed portions, and in use a leaf to be supported is inserted between the members 23 after moistening of the gummed portions, the edge of the leaf 26 being presented in alinement with the printed line, and the members 23 pressed thereagainst for secure retention of the leaf. In this manner it will be seen that the intervening portion between the edge of the leaf and the filler member 24 remains detached and provides a flexible hinged portion by which the leaf may be readily turned when secured in the binder.

In Fig. 5 there is shown a further modification of the device in which the two members 23 are made integrally from one blank of sheet material 27, the slots 28 utilized in securing the device in a binder being extended transversely of the central portion of the blank and having their opposite ends formed in a similar outline, as shown at 29. The opposite edges of this blank are gummed on a common side, as shown at 30, after which the blank is folded centrally along the line 31, the filler member 24 being engaged snugly therein and provided with suitable slots registering with the overlapped halves of the slots in the blank 27. The carrier as thus formed is used in a manner similar to that first described.

In Fig. 6 there is illustrated a further modification of the device in which the blank is similarly formed, but one edge thereof is provided with a nonadhesive 32, adapted to register with the adhesive 30' upon the opposite edge when the blank is folded, the filler member 24 being coengaged in the folded blank of this form as previously described.

In Fig. 7 there is illustrated a top view of the carrier as formed from the blank shown in Fig. 5 and inserted between the gummed portions there is a separator strip 35, adapted to prevent casual cohesion between the gummed surfaces, and which may be withdrawn when the device is to be used.

In Fig. 8 there is shown a modification of the filler which is provided with an inward extension 36 treated with oil or paraffin or other non-adhesive substances, and being semi-detached from the portion 24' by having a series of perforations 37 extended along its inner edge. The filler member

thus formed is secured between the support members of any of the previously described forms of the device, and when it is desired to use the carrier thus assembled, the separator extension 36 is torn off manually, after which the carrier is attached to a sheet in the usual manner.

In Fig. 9 there is shown an edge view of a binder with a thickener applied therein, the thickener comprising simply an additional strip which when folded will be similar to 24 interposed between the carrier, when leaves of unusual thicknesses are to be bound. In the form of carrier illustrated in Fig. 9 the member 24 and the member 24' are formed integrally from a single blank. A member 23' gummed on both of its edge portions on one side, and treated with a non-adhesive over the entire area on the opposite side, is secured upon either side of the portion 24' as shown. The gummed portion may be omitted from its inner edge, and a glazed non-adhesive placed thereon.

In Fig. 11 there is shown an additional form of binder adapted for use with this device, which is a familiar construction in the art, and for that reason will not be described in detail, but it comprises two opposite sections detachably coengaged and carrying a plurality of tubes 41 arranged to engage a suitable opening through the detachable leaves or carriers of the present device. The anchor portions of the carriers for use with this folder require to have a niche 42 formed at their opposite ends, Fig. 13 the anchors thus being in the form of tongues adapted to be inserted between the sides of the binder for engagement of the tubes through the perforations therein.

It will be understood that any form of binder may be used in conjunction with my leaf carriers if desirable, and within the scope of the claims and any suitable combination of the various elements previously described made, as found desirable.

In Fig. 1 there is shown a suitable index leaf carried in the binder, and adapted to be secured therein in a manner similar to that in which the carrier members are held, it being the intention to supply a suitable binder with an index sheet and supply the carrier members as required in any quantity desired.

As shown in Fig. 14, I secure the carrier members 22'' to the edges of the leaves, and place fillers 23'' within the fold. When it so happens that the leaves are thicker than the fillers 23'', I place additional fillers 40 between the carriers, to make up the difference between the outer and inner edges of the carriers. Thus the leaves will lie flat, and permit the book being easily closed.

The hinge or carrier member may be made as shown in Figs. 15 and 16, wherein

the members 22'' are separate pieces instead of double as shown in Fig. 14, and the member 23'' is provided with adhesive on one face, and secured between the strips 22.

5 What is claimed is:

1. A device of the class described comprising an anchor member, a flexible adhesive coated leaf-engaging member, and a protecting member carrying non-adhesive
10 material adapted to prevent casual adhesion of said adhesive surfaces.

2. A device of the class described comprising spaced blanks of sheet material having opposed adhesive coated surfaces and a
15 filler member secured therebetween and provided with non-adhesive portions disposed between said adhesive coated surfaces to prevent casual adhesion thereof.

3. The combination with a carrier strip
20 for loose leaf binders comprising an anchor portion adapted to be engaged in the binder, and a flexible portion having a gummed surface for attachment of a sheet to be bound, of a filler member adapted for similar en-
25 gagement in a binder and having a semi-detached non-adhesive portion adapted to protect the adhesive surface of the carrier from casual adhesion with surfaces.

4. In a device of the class described a carrier
30 comprising a strip of material doubled on itself, said strip having adhesive coated surfaces adjacent its edges and a filler mem-

ber having its opposite faces coated with adhesive and adapted to be positioned within the fold of said strip, and a supplemental
35 filler member disposed between adjacent carriers.

5. In a device of the class described, a carrier strip having adhesive portions near its edges, a non-adhesive portion between
40 said adhesive portions and a filler adapted to be secured to one of said adhesive portions, and the other of said adhesive portions being adapted to be secured to a leaf.

6. In a carrier for loose leaves, a pair of
45 members spaced permanently apart for receiving a leaf between them, the same being provided with adhesive-coated leaf-engaging sections, and detachable means interposed between the coated surfaces to pre-
50 vent casual adhesion thereof.

7. In a carrier for loose leaves, a member having a strip secured thereto, said strip having a detachable section, the member
55 being provided with an adhesive coating opposite said detachable section, for attaching a leaf thereto when said detachable section is removed.

In testimony whereof I affix my signature, in the presence of two witnesses.

HAROLD B. BRISTOL.

Witnesses:

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R. A. McCURDY.