H. M. MORRIS.

BINDER FOR SHEETS, LEAVES, AND THE LIKE.

APPLICATION FILED APR. 26, 1920.

1,398,387. Patented Nov. 29, 1921.

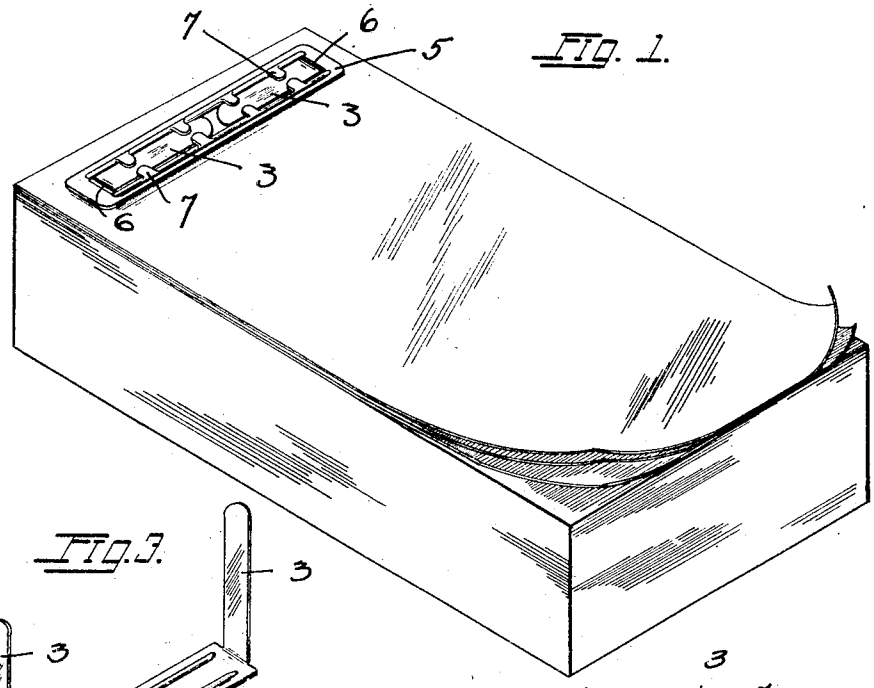


FIG. 1.

FIG. 3.

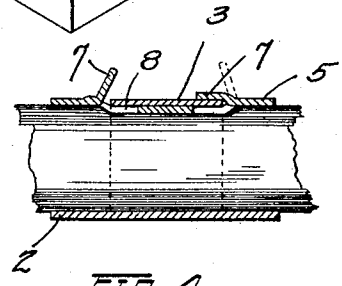


FIG. 4.

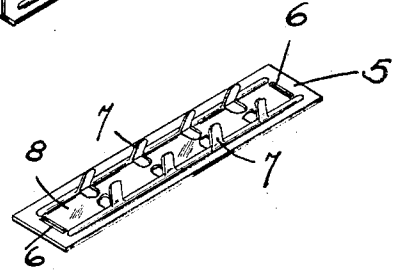


FIG. 2.

WITNESS

H. C. Sherburne

INVENTOR

Herbert M. Morris.

BY

White Prout & Edwards

his ATTORNEYS

UNITED STATES PATENT OFFICE.

HERBERT M. MORRIS, OF SAN FRANCISCO, CALIFORNIA.

BINDER FOR SHEETS, LEAVES, AND THE LIKE.

1,398,387. Specification of Letters Patent. Patented Nov. 29, 1921.

Application filed April 26, 1920. Serial No. 376,450.

To all whom it may concern:

Be it known that I, HERBERT M. MORRIS, a citizen of the United States, and a resident of the city and county of San Francisco, State of California, have invented a new and useful Binder for Sheets, Leaves, and the like, of which the following is a specification.

The present invention relates to a form of binder and clamping device that may be readily applied to a plurality of superposed sheets, leaves, cards or other elements that it may be desired to securely connect or fasten together.

It is one of the objects of the present invention to provide a binding or fastening device that is at once simple, substantial, durable and inexpensive, and that may be readily applied for the fastening together of superposed leaves or the like.

It is a further object of the invention to provide a fastener by which the leaves or other elements may be substantially permanently secured in assembled relation.

The invention possesses other objects and features of advantage, some of which, with the foregoing, will be made manifest in the following description of the preferred form of the invention which is illustrated in the drawings accompanying and forming part of the specification. It is to be understood that it is not intended to limit the invention to the embodiment shown by the said drawings and description as variations may be adopted within the scope of the invention as set forth in the claims.

Referring to the drawings:

Figure 1 is a perspective showing the device as applied and binding a pile of leaves or sheets together.

Fig. 2 is a perspective of the locking or top piece or member.

Fig. 3 is a perspective of the complementary piece showing bendable ends arranged to be passed through the elements to be fastened.

Fig. 4 is a cross section through the device showing the locking lugs struck down in fastening position.

The present binder comprises essentially two strip-like members or pieces that preferably are made of stiff, flat and bendable material that may be of thin metal. One of the fastening members is, or has end portions, of less width than the complementary retaining or clamping member, the latter being provided with apertures through which the ends of the first named piece or member may be passed and then bent inwardly to overlap the locking member, the latter being provided with bendable lugs adapted to be struck down over the inwardly folded ends of the other piece.

For convenience one of the members will be called the leaf holding piece and the other will be referred to as the locking piece. The leaf holding piece consists of an elongated strip-like member that may be of uniform width from end to end or as is shown may comprise an intermediate body portion 2 from the ends of which extend fastening tongues 3—3 of less width than the width of the body part 2. These tongues are adapted to be folded upwardly from the plane of the body part 2 and passed through apertures in the sheets, leaves, or other elements that are to be fastened together.

The locking strip is shown as of substantially uniform width throughout its length forming thus an oblong member 5 adjacent the ends of which are provided transversely elongated apertures 6—6 of a width sufficient to receive the fastening tongues 3—3 of the member or piece 2 after the tongues have been passed through the sheets to be fastened together. For the purpose of permanently retaining the bendable tongues 3—3, when they have been inwardly folded to overlap the face of the locking piece 5, the latter is provided with a plurality of bendable tongues 7, which before being applied, project upwardly from the face of the piece 5 to permit the infolding of the fastening tongues 3—3. The lugs 7 are arranged in rows longitudinally of the locking strip 5 each row spaced sufficiently to receive between the same the tongues 3. The fastening lugs 7—7 are preferably arranged in opposite relation to each other transversely along the strip and a sufficient number of the lugs are provided to securely retain the inwardly folded tongues 3—3 to make a substantially permanent fastener to hold the leaves or other elements together when the several lugs 7 have been turned inwardly over the applied tongues 3.

If desired, the central portion of the locking strip 5 may be countersunk as shown at 8 so that the applied tongues 3—3 will, when

folded inwardly into the countersunk portion lie substantially flush with the top face of the locking strip 5. Preferably the lugs 7 are inwardly inclined slightly so that they may be very closely nested on each other to be compactly grouped in a container.

The several fastening lugs 7 normally stand in an upright position and only become effective as a locking means when they are struck down over the interposed tongue or tongues 3 of the complementary member.

What is claimed is:

1. As an article of manufacture, a cap or locking plate for sheet binders consisting of a strip having transverse slots adjacent to its ends to receive binding tongues, and having upwardly projecting bendable lugs punched from the body of the strip and adapted to be folded down over binding tongues laid down on the strip.

2. As an article of manufacture, a cap or locking plate for sheet binders consisting of a strip having transverse slots adjacent to its ends to receive binding tongues, and having upwardly projecting bendable lugs at opposite sides, punched from the body of the strip and adapted to be folded down over binding tongues laid down on the strip.

3. As an article of manufacture, a cap or locking plate for sheet binders consisting of a strip having transverse slots adjacent to its ends to recive binding tongues, and having upwardly projecting bendable lugs punched from the body of the strip and adapted to be folded down over binding tongues laid down on the strip; the tongues being arranged opposite each other in pairs so that when they are folded down they prevent lateral dislocation of the inserted tongue.

In testimony whereof, I have hereunto set my hand.

HERBERT M. MORRIS.