No. 881,514. PATENTED MAR. 10, 1908.

H. WIEDEMAN.

TEMPORARY BINDER FOR LOOSE LEAVES.

APPLICATION FILED FEB. 18, 1907.

Fig. 1.

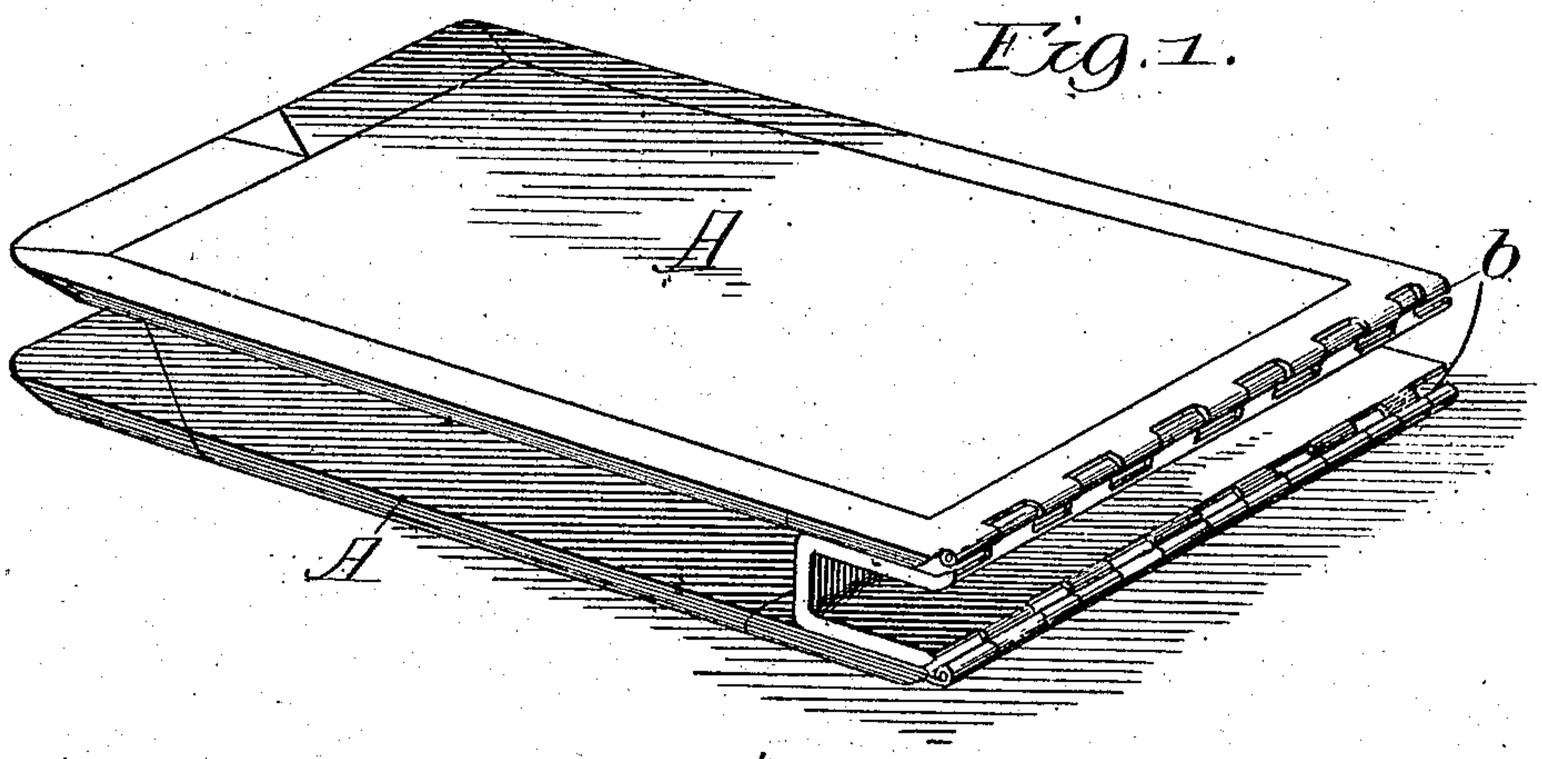


Fig. 2.

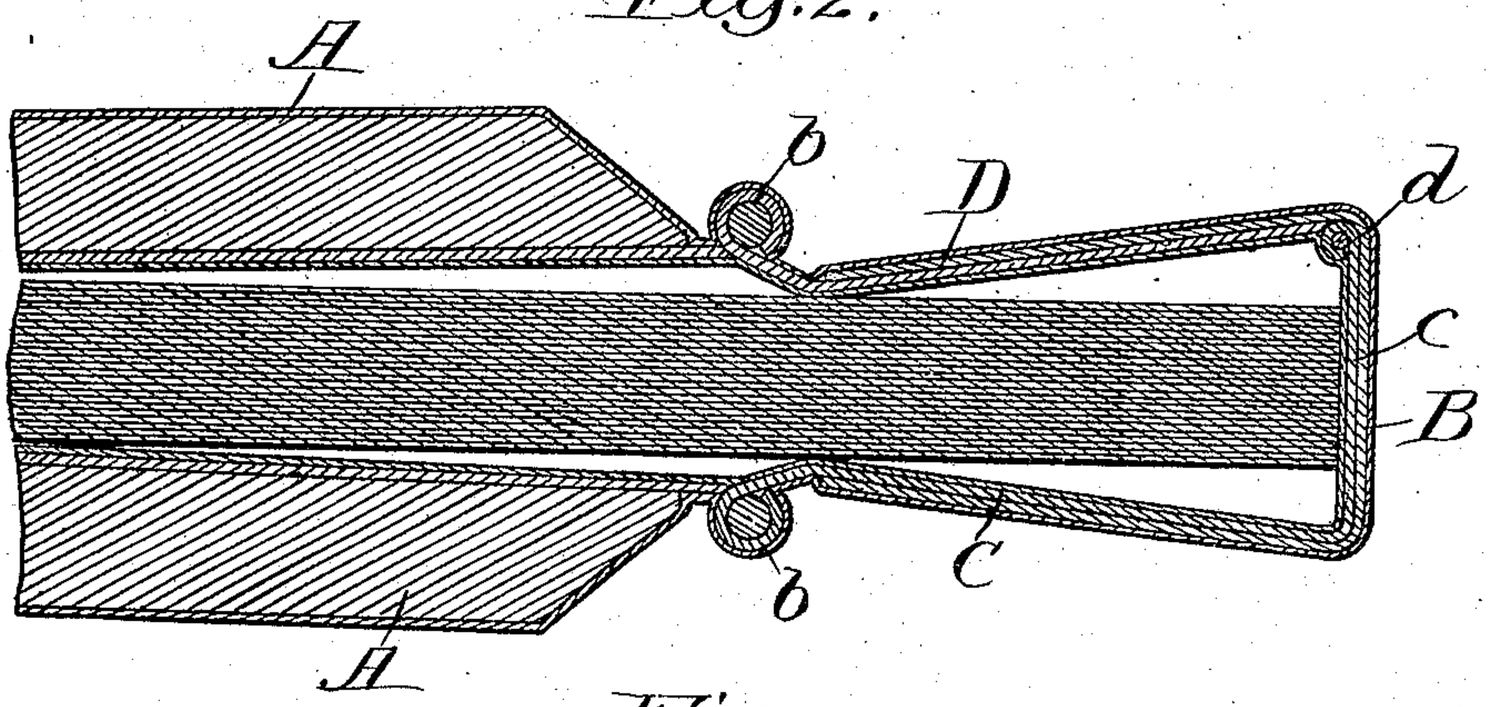
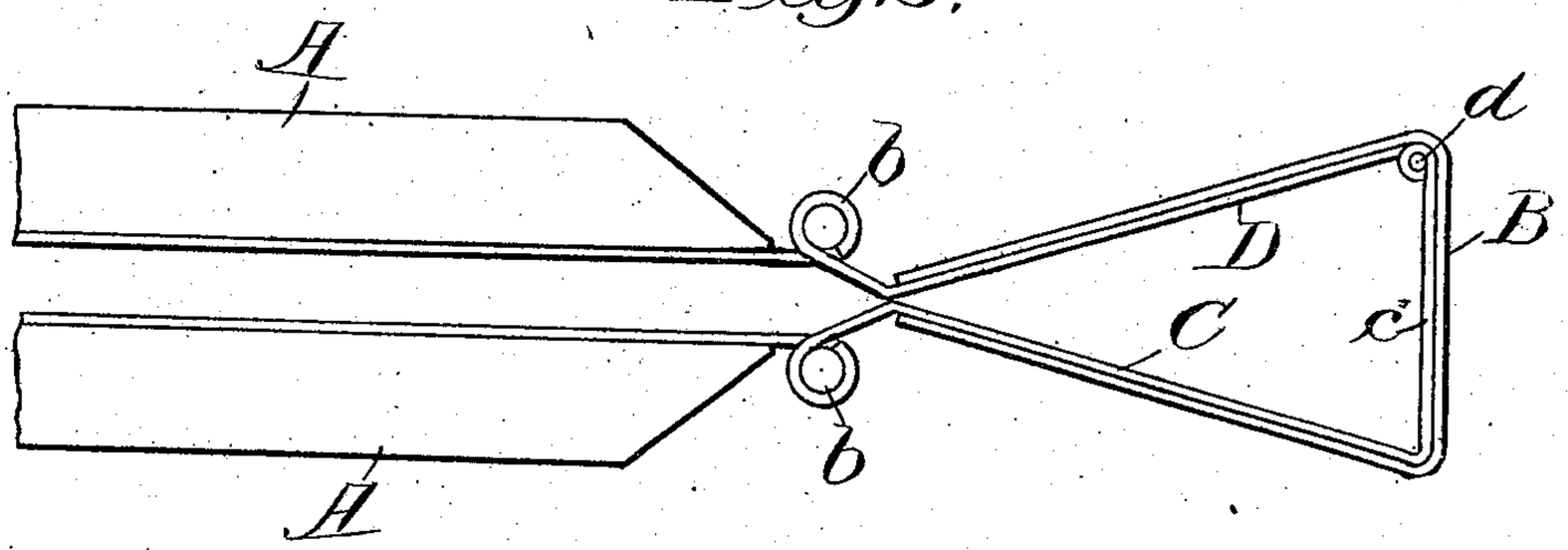


Fig. 3.



Witnesses:
O. W. Merrick
E. K. Lundy.

Inventor
Herman Wiedeman,
by Frank D. Thomason
Atty.

UNITED STATES PATENT OFFICE.

HERMAN WIEDEMAN, OF CHICAGO, ILLINOIS, ASSIGNOR TO J. S. McDONALD COMPANY, OF CHICAGO, ILLINOIS, A CORPORATION OF ILLINOIS.

TEMPORARY BINDER FOR LOOSE LEAVES.

No. 881,514. Specification of Letters Patent. Patented March 10, 1908.

Application filed February 18, 1907. Serial No. 357,946.

To all whom it may concern:

Be it known that I, HERMAN WIEDEMAN, a citizen of the United States, and a resident of Chicago, Cook county, Illinois, have invented certain new and useful Improvements in a Temporary Binder for Loose Leaves, of which the following is a clear, full, and exact description.

My invention relates to the construction of binders for loose leaves known as temporary or "transfer" binders between the clamping edges of which invoices, bills of lading, etc., are adapted to be neatly and quickly filed away preparatory to being entered in the permanent record-books used in book-keeping. In books of this particular class the spring clamp for the back usually comprises a strip of flexible sheet steel, so bent that its longitudinal edges are brought together in alinement with each other and forming substantially an isosceles triangle in cross-section. Owing to the fact that this spring-clamp is made of highly tempered sheet steel, considerable difficulty has been found in working the metal for such purposes as the forming of the hinges on the longitudinal edges of said spring.

The object of my invention is to provide a binder in which the hinges may be made separate from and not interfere with the operation of this spring and this I accomplish in an efficient and economical manner, substantially as hereinafter fully described and as specifically pointed out in the claims.

In the drawings:—Figure 1 is a perspective view of a temporary binder in connection with which my invention is adapted to be used, showing the book in open position, for the insertion or removal of leaves. Fig. 2 is a longitudinal section thereof drawn to a larger scale. Fig. 3 is an end view showing in detail the spring and parts constituting my invention with the covering or facing fabric removed.

Referring to the drawings A, A, represent the covers of a book to which my improvements are, preferably, applied and B is a spring-clamp for the back thereof that is preferably made of a single piece of sheet metal highly tempered and bent substantially in the shape of an isosceles triangle in cross section. The covers are provided with a flexible jointed back that consist of suitable hinge-plates C, D, of sheet metal that are each provided with knuckles *b*, *b*, and are connected by riveting or otherwise, to the covers of the binder. The rear portion of the lower plate C extend into the spring-clamp a suitable distance where it is bent upwardly at an acute angle to itself to form a flange *c* that is approximately the same height as the inside of the base of the triangle formed by the spring-clamp.

The upper hinge-plate D extends to the rear about the same distance as the lower plate and it is connected to the upper longitudinal edge of the flanged portion of said plate by means of suitable hinged knuckles *d*. When these several parts have been hinged or secured together they form a flexible jointed back for the covers and all that it is necessary to do to complete the binder is to slide the triangular shaped spring-clamp over the hinge-plates as is shown in Fig. 3 which keeps said plates normally pressed towards each other. The covering for the book such as leather, corduroy and other fabric, can then be placed around the various parts of the cover and back as desired. These hinge-plates and the spring-clamp having their body portions separated from each other, form a suitably shaped box or compartment between the divided inner compressed ends of which the binding edges of the loose leaves are adapted to be inserted and temporarily held.

In operation when it is desired to clamp the leaves between the binding edges, the covers of the book are thrown back as far as possible and the outer edges pressed toward each other. As these outer edges come closer together the opening between the jaws of the hinge-plates open wider to permit the insertion of any number of loose leaves, and upon being placed therein the covers are allowed to return to their normal position and the spring-clamp will then securely hold the leaves in position.

What I claim as new is:—

1. A temporary binder for loose leaves comprising suitable covers, and a flexible jointed back consisting of an upper and a lower plate each hinged respectively to said covers the rear longitudinal portion of one of said plates being bent at an angle to itself and hinged to the rear longitudinal portion of the opposite plate by a hinge the knuckles of which do not separate said plates, and a

sheet metal spring-clamp between which the rear portions of said plates are held and normally pressed toward each other.

2. A temporary binder for loose-leaves comprising suitable covers, and a flexible jointed back consisting of upper and lower plates hinged respectively to said covers, the rear longitudinal portion of said lower plate being bent at an angle to itself and having the rear longitudinal portion of the upper plate hinged to the free edge thereof the diameter of the knuckles of said hinge being less than the space between said plates and a sheet metal spring-clamp substantially triangular-shape in cross-section between the divided longitudinal edges of which said plates are held and kept normally pressing toward each other.

3. A temporary binder for loose-leaves comprising suitable covers, an upper and a lower hinged binding plate one of which has its outer longitudinal edge bent at an angle to itself and has the opposite plate hinged thereto by a hinge the knuckles of which do not separate said plates, and a metallic spring-clamp between which the outer members of said binding-plates are clamped.

4. A temporary binder for loose-leaves comprising suitable covers, hinged upper and lower binding-plates to the forward members of which said covers are secured, one of said plates having its free longitudinal portion bent at an angle to itself and the opposite plate hinged to the edge thereof by a hinge the knuckles of which do not separate said plates, and a sheet metal spring-clamp substantially triangular-shaped in cross-section between which the outer members of said binding-plates are clamped.

5. A temporary binder for loose-leaves comprising suitable covers, an upper and a lower binding-plate having their inner members hinged to said covers, the inner longitudinal portion of said lower plate being bent at an angle to said plate and hinged to the inner edge of said upper plate by a hinge the knuckles of which do not separate said plates, and a sheet metal spring-clamp between the abutting free edges of which the attached members of said plates are clamped.

6. A temporary binder for loose-leaves comprising suitable covers, an upper and a lower binding-plate having their inner members hinged to said covers, the inner longitudinal portion of said lower plate being bent at an angle to said plate and hinged to the inner edge of said upper plate by a hinge the knuckles of which do not separate said plates, and a sheet metal spring-clamp bent substantially triangular-shape in cross-section and fitting over the outer attached members of said binding-plates and adapted to keep their respective hinged portions normally pressing toward each other.

In testimony whereof I have hereunto set my hand and seal this 14th day of February, A. D., 1907.

HERMAN WIEDEMAN. [L. S.]

Witnesses:
FRANK D. THOMASON,
E. K. LUNDY.