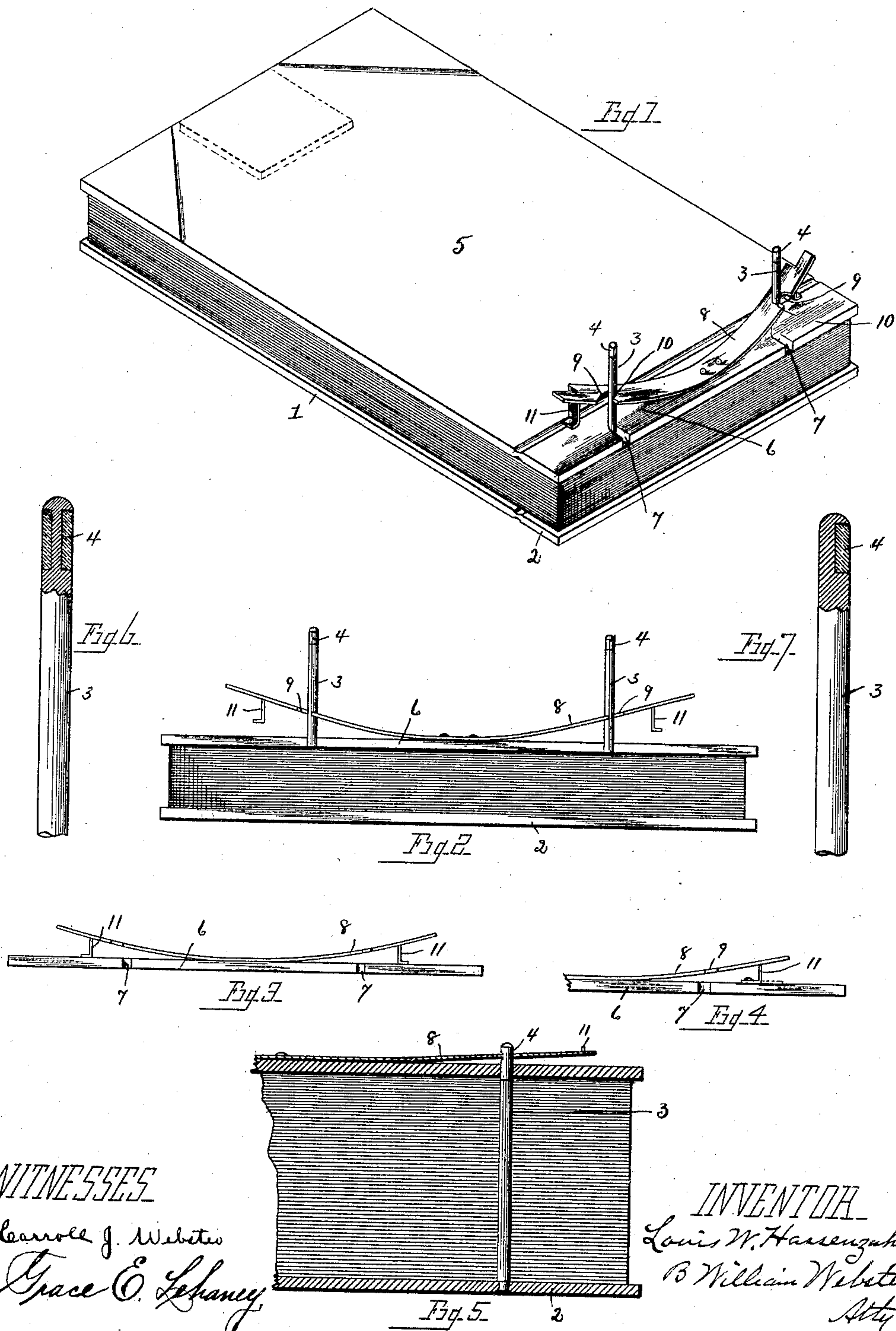


(No Model.)

L. W. HASSENZAHN.  
TEMPORARY BINDER.

No. 482,524.

Patented Sept. 13, 1892.



WITNESSES

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# UNITED STATES PATENT OFFICE.

LOUIS W. HASSENZAHN, OF TOLEDO, OHIO.

## TEMPORARY BINDER.

SPECIFICATION forming part of Letters Patent No. 482,524, dated September 13, 1892.

Application filed May 31, 1892. Serial No. 434,884. (No model.)

*To all whom it may concern:*

Be it known that I, LOUIS W. HASSENZAHN, of Toledo, county of Lucas, and State of Ohio, have invented certain new and useful Improvements in Temporary Binders; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the figures of reference marked thereon, which form part of this specification.

My invention relates to temporary binders, and has for its object to construct a binder for the purpose of filing invoices, order-bills, receipts, and other memoranda in a convenient manner.

A further object is to provide for simplicity of construction and convenience in operation in inserting and removing papers from the binder.

A further object is to provide for using the entire length of the filing-pins for the reception of papers and means for securing the clamping-bar thereto.

With these objects in view the invention consists, broadly, in a back, filing-pins extending vertically therefrom, a cover and a clamping-bar secured thereto formed with perforations to receive the pins and a curved slot extending from the perforations to the edge, and a compressible substance upon the pins into which the clamping-bar may impinge to allow the cover to be secured at the extreme height of the pins, with means for preventing the ends of the clamping-bar from assuming a horizontal plane when the cover is removed.

In the drawings, Figure 1 is a perspective view of the binder, showing a number of papers filed therein. Fig. 2 is a rear edge view. Fig. 3 is a rear edge view of the cover removed from the binder, showing the standards for limiting the movement of the clamping-bar. Fig. 4 is a like view showing the standard upon the cover. Fig. 5 is an edge view of a section of the binder, showing the top raised and secured to the binding-pins by reason of the clamping-bar impinging into the compressible portion upon the binding-pins. Fig. 6 is an elevation of one of the binding-pins, showing in cross-section a rubber

band or compressible portion into which the clamping-bar may impinge to allow the same to vary the curvature sufficiently to permit the use of the binding-pins to their extreme length and also to lock the cover when the binder is filled, as well as to form a surface that will retard the papers by frictional contact from accidental displacement when the cover is removed. Fig. 7 is an elevation of one of the binding-pins, showing the compressible section inserted in one side only.

1 designates the back, flexibly connected with the end portion 2, in which are secured two vertical pins 3 of a height to receive the desired number of papers to be bound, said pins being provided with a compressible section 4, preferably of rubber, either entirely encircling the reduced end, as shown in Fig. 6, or inserted in one side, as shown in Fig. 7, the purpose of which is to allow the clamping-bar to impinge into the compressible section and hold the cover when the binder is filled, and also to allow of utilizing the entire length of the pins to hold the papers, as well as to form a retaining-surface for the papers and prevent their accidental displacement.

5 designates the cover flexibly connected with an end portion 6, slotted transversely at 7 coincidently with the filing-pins to allow the cover to be removed horizontally or inserted in the same manner.

8 designates a clamping-bar secured to the end portion 6 of the cover and engaging the pins. Clamping-bar 8 is formed with rearwardly-receding recesses 9, the openings of which are coincident with the filing-pins 3 when the clamping-bar is curved, and a semi-circular opening 10, the metal of which engages frictionally with the pins when the curvature is slightly decreased. At each end of the bar there are standards 11, which are either joined integral with the bar, as shown in Figs. 1, 2, and 3, or are formed separate and secured to the cover, as shown in Fig. 4, the standards serving to limit the movement of the bar when the cover is removed from the binder and cause each end to rest normally above the flat surface of the cover to allow of conveniently grasping the ends of the bar to replace the cover when adding new papers to the file. This feature of my invention is of great value, as in the absence of the stand-



ards the spring would normally lie flat upon the cover and cause annoyance and delay, as well as injury to the fingers, in the act of raising the same to cause the slots to coincide with the filing-pins.

It will be apparent that I may dispense with the standards and form the springs with an upward curve, if desired, or I may secure any convenient attachment to the spring by which to raise the same, so that the application of power is above a horizontal plane parallel with the cover.

In the use of the binder when it is desired to refer to memoranda upon any of the pages the cover is raised and folded back. The tendency, however, is to close, due to the tension upon the end portion 6 by the papers in the binder. I have overcome this objection by inserting a weight, as shown in dotted lines, Fig. 1, either of iron or lead, that effectively holds the cover when opened.

In operation, when it is desired to file a paper the paper may be first perforated in coincidence with the filing-pins, or the pins may be caused to puncture the paper. The top is then placed in position by curving the clamping-bar to cause the slots therein to coincide with the pins, the slots 6 in the end portion 5 allowing the same to be placed in position, when upon releasing the clamping-bar the flexure of the spring causes the same to impinge upon the pins with sufficient force to hold the cover from vertical movement until released by curving the bar. In order to remove the cover, the bar is turned to cause the opening of the receding slots to coincide with the pins, when the cover is moved horizontally to withdraw the same and the bar from the pins. When the cover is removed, the standards formed upon the outer ends of the bar contact with the upper surface of the cover and hold the bar sufficiently raised at the ends to allow of conveniently grasping the same to replace the cover. When the binding-pins are filled with papers to nearly their height, the bar impinges into the rubber

at the top of the pins and allows of utilizing nearly the entire length of the pins, and when the binder is full the impingement of the bar into the rubber locks the cover sufficiently to effectually hold the same in place.

It will be seen that I have provided an inexpensive and compact binder capable of being easily operated to receive additional papers and that will securely bind those inclosed therein.

What I claim is—

1. In a binder, the combination, with a back, of the filing-pins secured thereto, a cover formed with slots adapted to receive the pins, and an upwardly-curved clamping-bar secured to the cover centrally between the pins, said bar having slots near its outer ends to receive the pins, and said bar normally binding upon the pins and holding the cover in position.

2. In a binder, the combination, with a back, of the filing-pins, the cover, the clamping-bar secured to the cover and adapted to engage the pins, and the supports for elevating the ends of the clamping-bar.

3. In a binder, a back, a cover, a clamping-bar secured upon the cover, clamping-pins secured to the back and having a compressible section at the upper ends.

4. In a binder, a back formed with flexibly-connected end portions, filing-pins secured in the end portions, a cover having a flexibly-connected end portion having slots coincident with the filing-pins, a clamping-bar secured upon the end portion of the cover centrally of the pins and formed with recesses to receive the filing-pins, and a weight upon the opposite end of the cover.

In testimony that I claim the foregoing as my own I hereby affix my signature in presence of two witnesses.

LOUIS W. HASSENZAHN.

Witnesses:

WILLIAM WEBSTER,  
CARROLL J. WEBSTER.