

UNITED STATES PATENT OFFICE.

LE ROY HILL, OF CHICAGO, ILLINOIS, ASSIGNOR TO JONES IMPROVED LOOSE LEAF SPECIALTY COMPANY, OF CHICAGO, ILLINOIS, A CORPORATION OF ILLINOIS.

LOOSE-LEAF BINDER.

No. 897,535.

Specification of Letters Patent.

Patented Sept. 1, 1908.

Application filed November 20, 1907. Serial No. 402,960.

To all whom it may concern:

Be it known that I, LE ROY HILL, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have
5 invented a new and useful Improvement in Loose-Leaf Binders, of which the following is a specification.

My invention relates particularly to transfer binders; and my primary object is to provide improved and simplified means for the
10 adjustment of the upper clamping-bar upon the posts of the binder.

The invention is illustrated in its preferred embodiment in the accompanying drawing,
15 in which—

Figure 1 represents a broken perspective view of a transfer binder constructed in accordance with my invention; Fig. 2, a broken sectional view taken as indicated at line 2 of
20 Fig. 1; Fig. 3, a broken sectional view taken as indicated at line 3 of Figs. 2 and 4; and Fig. 4, a broken sectional view taken as indicated at line 4 of Fig. 3.

In the construction illustrated, A, A' represent the upper and lower cover-sections,
25 respectively, of a binder; B, B', upper and lower clamping-bars flexibly connected, respectively, with the upper and lower cover-sections; C, C', sectionally-constructed binding-posts rigidly connected with the lower
30 clamping-bar and extending freely through perforations provided in the upper clamping-bar near the ends thereof; and D, D', a pair of clamping-screws having threaded connection with the end portions of the upper clamping-bar and bearing at their inner ends
35 against the binding-posts C, C'.

The clamping-bars may be of any suitable construction. The upper clamping-bar is preferably of tubular or hollow construction,
40 being fitted at its ends with inserted plugs *b* secured in place by pins *b'*. The plugs *b* are provided with threaded perforations which extend longitudinally of the bar B and receive the clamping-screws D, D'. The lower
45 clamping-bar projects somewhat beyond the

ends of the upper clamping-bar and the heads *d* of the clamping-screws bear against the outer ends of the plugs *b* and lie above the projecting ends of the lower bar and inside the
50 plane of longitudinal edges of the cover-sections, the outer end-surfaces of the heads of the screws being substantially flush with the ends of the lower bar. The screws are preferably oppositely threaded, this arrangement
55 facilitating the manipulation of the screws.

The construction of the sectional binding-posts is well understood; and need not be described.

To adjust the upper clamping-bar on the
60 binding-posts, it is only necessary to turn the clamping-screws outwardly slightly, *i. e.* unturn the screws, move the upper bar upwardly or downwardly, as desired, and then turn the screws inwardly to securely clamp
65 the upper bar to the binding-posts. The disposition of the clamping-screws is such as to protect them in the ordinary use of the binder, and prevent the screws from being brought into contact with the table. The
70 construction is exceedingly cheap, thoroughly durable and reliable, and perfectly adapted to the purpose.

What I regard as new, and desire to secure by Letters Patent, is—

In a binder, the combination with a lower
75 clamping-bar and binding-posts rising therefrom, of a tubular upper clamping-bar having perforations receiving said posts, the ends of the upper clamping-bar lying some distance within the planes of the longitudinal
80 edges of the cover-sections, end-plugs in said upper clamping-bar having threaded perforations, and clamping-screws extending through said perforations and engaging said posts
85 and having heads lying substantially inside the planes of the longitudinal edges of said cover-sections.

LE ROY HILL.

In presence of—

R. A. SCHAEFER,
W. T. JONES.