No. 646,106. Patented Mar. 27, 1900.

H. P. & H. S. JONES.

EXTENSIBLE POST FOR TRANSFER LEDGERS, &c.

(Application filed Nov. 18, 1899.)

(No Model.)

Fig. 1.

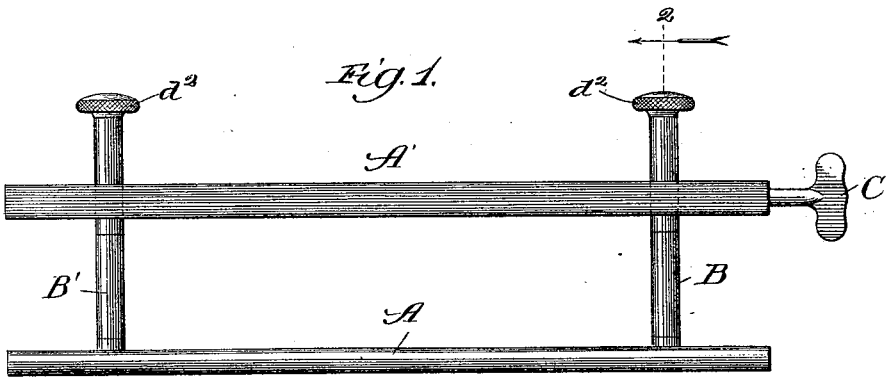


Fig. 2.

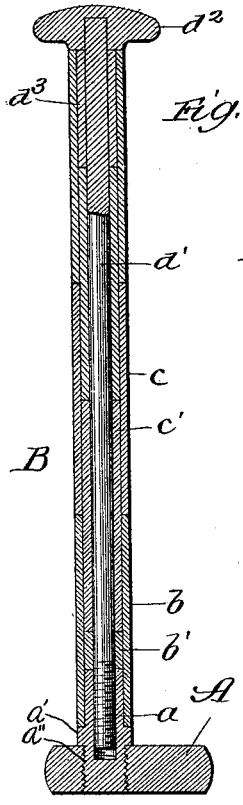


Fig. 3.

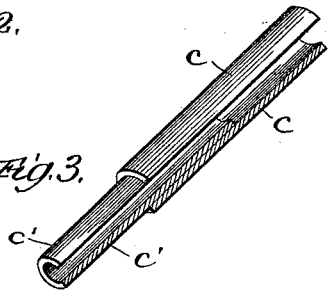


Fig. 4.

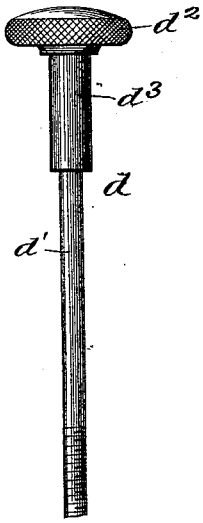
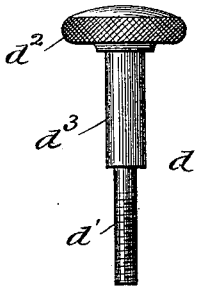


Fig. 5.



Witnesses:
Chas. E. Gaylord,
D. N. Lee.

Inventors
Harvey Peirce Jones,
Harry Sloper Jones,
By Dyrenforth & Dyrenforth
Attys.

UNITED STATES PATENT OFFICE.

HARVEY PEIRCE JONES AND HARRY SLOPER JONES, OF CHICAGO, ILLINOIS, ASSIGNORS TO THE JONES PERPETUAL LEDGER COMPANY, OF SAME PLACE.

EXTENSIBLE POST FOR TRANSFER-LEDGERS, &c.

SPECIFICATION forming part of Letters Patent No. 646,106, dated March 27, 1900.

Application filed November 18, 1899. Serial No. 737,537. (No model.)

To all whom it may concern:

Be it known that we, HARVEY PEIRCE JONES and HARRY SLOPER JONES, citizens of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Extensible Posts for Transfer-Ledgers, &c., of which the following is a specification.

Our invention relates particularly to an improvement in extensible posts for transfer-ledger binders, though the improved post may be used in many analogous situations.

Our object is to provide a binder of cheap, strong, durable, and otherwise thoroughly-efficient construction wherein the posts may be extended according to necessity as the material to be bound accumulates.

In the accompanying drawings our improved post is shown in its preferred form in connection with the upper and lower clamping-bars of a ledger-binder.

In the drawings, Figure 1 is a view in elevation of the clamping-bars and our improved posts connected therewith, the latter being shown of two-sections height; Fig. 2, an enlarged sectional view of a post of three-sections height, the section being taken as indicated at line 2 of Fig. 1; Fig. 3, a perspective sectional view of one of the tubular sections employed; and Figs. 4 and 5, views of bolts for use in one and two section posts, respectively.

A A′ represent the clamping-bars, B B′ the extensible posts, and C a key by means of which the bar A′ is clamped to the posts in any desired position through the medium of any suitable or preferred mechanism contained within said bar—such, for instance, as that described in the application of Harvey Peirce Jones, Serial No. 710,785, filed March 28, 1899.

Each post comprises, preferably, a stub a, having a screw-bolt socket at its upper end and a collar a' and shank a^2 at its lower end, for firm attachment, as by screw or riveted connection, with a stub-socket in the lower frame or bar; a lower tube-section member b, supplied internally with a rigidly-secured short tube-section member b', affording at its lower end a shoulder which rests upon the stub a, while the lower end of the member b is flush with and rests upon the collar a'; a tube-section member c, supplied internally with a downwardly-extending tube-section member c', which rests on the upper end of the short section b'; as many duplicates of the tube-section c c' as may be necessary, and screw-bolts d of the required lengths to secure any desired number of the tube-sections together and to the stub a.

The tube-sections are preferably of brass, the outer members being firmly secured to or shrunk upon the inner members. The outer member of each tube-section above the lower one is preferably of the same length as the inner member thereof and projects a half-length above said inner member. The upper end of the member b' is just a half-length below the top of the member b, and thus the sections fit together and upon the stub with practically continuous inner and outer surfaces of the complete built-up tube.

Each screw-bolt comprises, preferably, a steel or iron shank d', threaded at its lower end to enter the socket in the stub a, a brazen knurled head d^2, fixed or shrunk upon the upper end of said shank, and sleeve d^3, which fits tightly and rigidly on the upper end of the shank and is of such dimensions as to enter the adjacent tube-section and bear upon its inner shoulder, while a shoulder at the head bears upon the extreme upper end of said tube-section.

From the foregoing description it will be understood that posts of any number of sections within a reasonable limit may be built up by employing the desired number of tube-sections and a screw-bolt of corresponding length. The built-up post is rigidly secured and is solid throughout, and the bar A′ may be clamped firmly at any position without injury to the posts. When it is desired to increase the lengths of the posts, the bar A′ is loosened and it and the bolts removed without disturbing the tube-sections already in place. Additional tube-sections are put in place, and longer bolts replace those first used.

The gist of our invention lies in the use of tube-sections and bolts passing therethrough to secure them to the base. It is obvious that

the use of internally-threaded projecting stubs as post-sockets increases the length of and thus strengthens the connection with the screw-bolts. These stubs may be dispensed with, however, so long as the features of tube-sections jointed together and to the lower bar or base and a bolt for securing and strengthening said tube-sections are preserved. The joints should be of such length as to keep the tube-sections in place while a new tube-section is being put in place.

The posts may be used in a binder or file of any description serving for securing loose leaves, papers, maps, or the like.

What we claim as new, and desire to secure by Letters Patent, is—

1. In a binder of the nature described, the combination with a base and a movable clamping-bar coöperating therewith provided with a perforation, of a post received by said perforation, comprising sleeve-sections jointed together and to the base, and a bolt passing through said sleeve-sections and serving to secure them together and bind them rigidly to the base, substantially as and for the purpose set forth.

2. In a binder, the combination with a lower bar A, and an upper bar A′ provided with perforations, of posts, each comprising a sleeve-section jointed to said lower bar and provided with a socket, a sleeve-section provided at its lower end with an extension fitting into said socket and provided at its upper end with a socket, and a screw-bolt for securing said sleeve-sections firmly together and binding them to said lower bar, substantially as and for the purpose set forth.

3. In a binder, the combination with a lower bar A, and an upper bar A′ provided with perforations, of posts each comprising a sleeve-section jointed to said lower bar and provided with a socket, a sleeve-section provided at its lower end with an extension fitting into said socket and provided at its upper end with a socket, and a screw-bolt for securing said sleeve-sections firmly together and binding them to said lower bar, said screw-bolt being provided at its upper end with an enlargement fitting into the adjacent socket of a sleeve-section, substantially as and for the purpose set forth.

4. In a binder, the combination of a bar provided with threaded bolt-sockets, sleeve-sections jointed to said bar at said sockets, sleeve-sections jointed together and to said first-named sleeve-sections, screw-bolts passing through said sleeve-sections and entering said threaded sockets, and a bar movably secured to the posts thus formed, substantially as and for the purpose set forth.

5. In a binder, the combination of a bar provided with internally-threaded projecting stubs, sleeve-sections fitting over said stubs and provided with sockets, sleeve-sections fitting into said sockets of said first-named sleeve-sections and themselves provided with sockets, and screw-bolts passing through said sleeve-sections and entering said stubs and provided at their upper ends with enlargements fitting the sockets of the upper tube-sections, substantially as and for the purpose set forth.

6. The combination with a bar A, of lower sleeve-sections connected therewith provided with sockets, tube-sections formed of outer and inner tubular members, said inner members projecting beneath the outer members to enter said sockets, and screw-bolts for securing said last-named sleeve-sections to said lower sleeve-sections, substantially as and for the purpose set forth.

HARVEY PEIRCE JONES.
HARRY SLOPER JONES.

In presence of—
W. GIFFORD JONES,
RHODA JOOS.