

No. 747,794.

PATENTED DEC. 22, 1903.

S. STEPHENS.

PRINTER'S FURNITURE.

APPLICATION FILED AUG. 9, 1902.

NO MODEL.

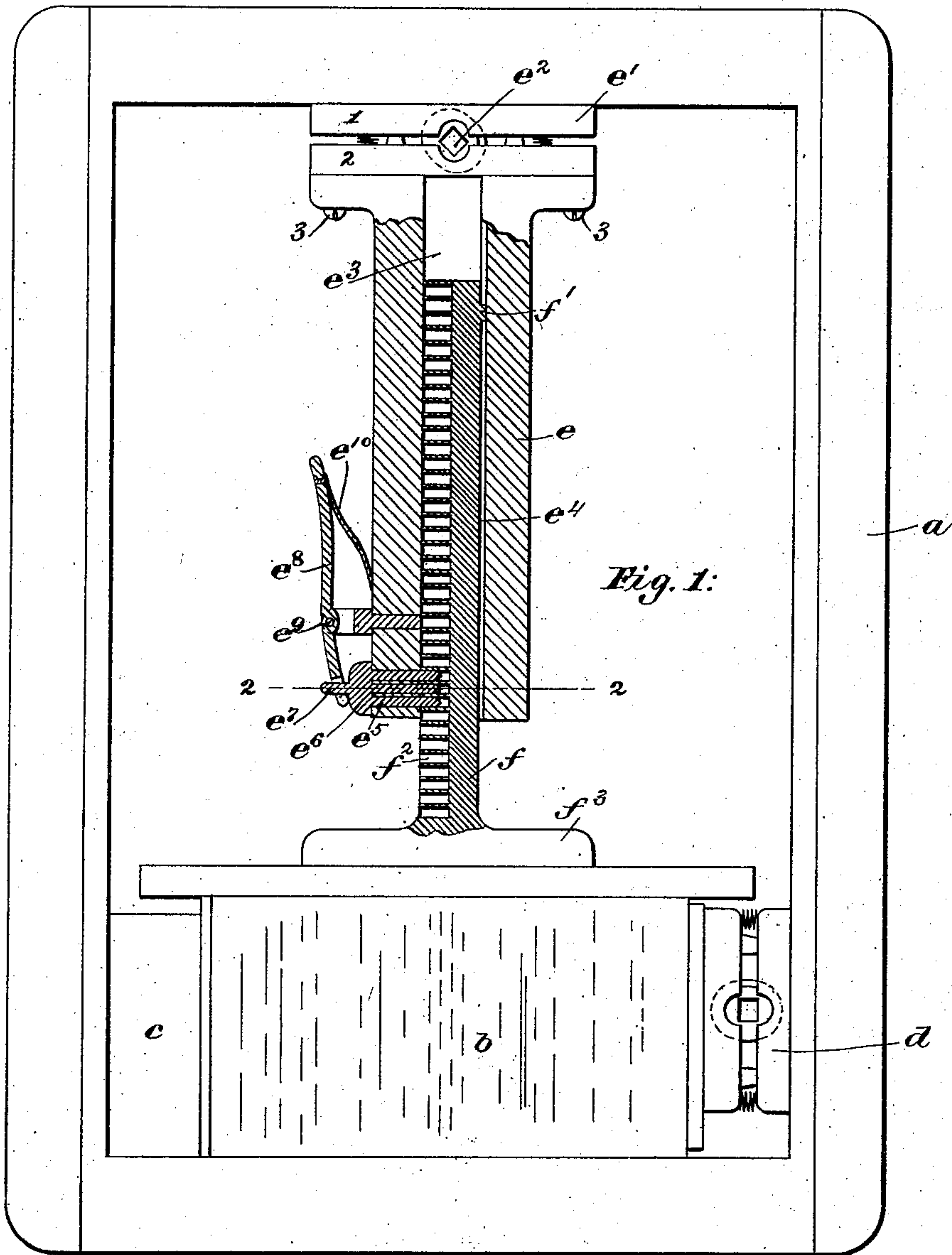
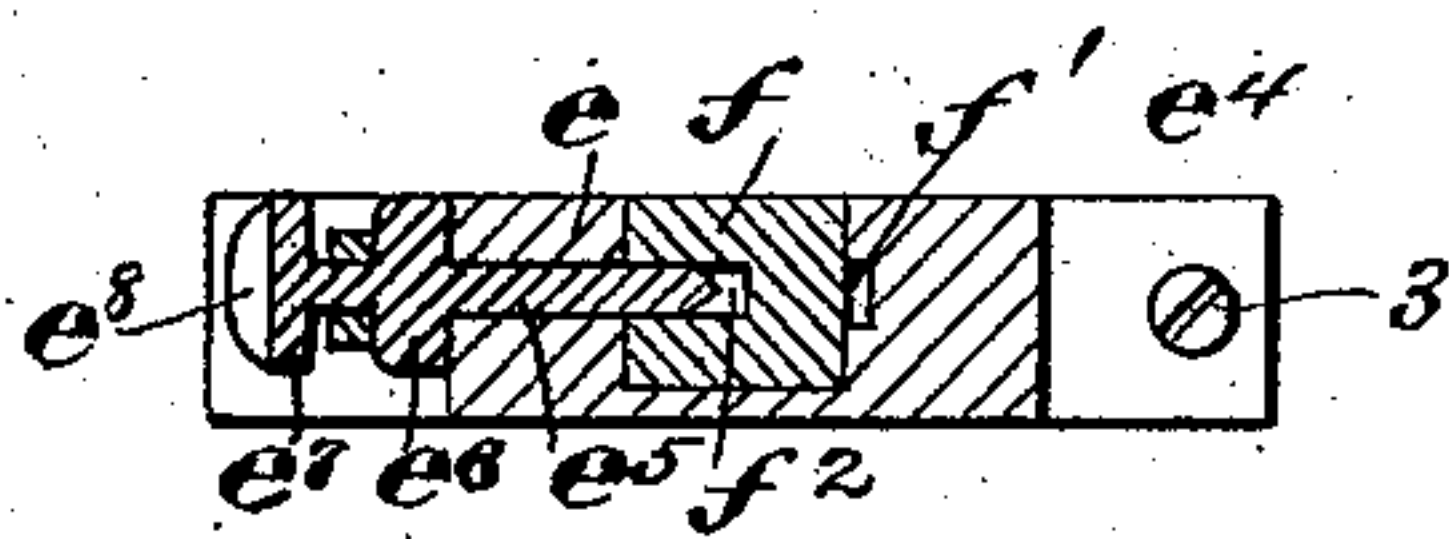


Fig. 2:



Witnesses;
Ernest J. Emery
Randall D. Houghton

Inventor
Samuel Stephens,
by Fredrick L. Emery-
Atty.

UNITED STATES PATENT OFFICE.

SAMUEL STEPHENS, OF SOMERVILLE, MASSACHUSETTS, ASSIGNOR TO
WICKERSHAM QUOIN COMPANY, OF BOSTON, MASSACHUSETTS, A
CORPORATION OF MAINE.

PRINTER'S FURNITURE.

SPECIFICATION forming part of Letters Patent No. 747,794, dated December 22, 1903.

Application filed August 9, 1902. Serial No. 118,998. (No model.)

To all whom it may concern:

Be it known that I, SAMUEL STEPHENS, a citizen of the United States, residing at Somerville, in the county of Middlesex and State of Massachusetts, have invented an Improvement in Printers' Furniture, of which the following description, in connection with the accompanying drawings, is a specification, like characters on the drawings representing like parts.

My invention in printers' furniture aims particularly to improve what are known as extensible "lock-ups," used for locking up a small form in a large chase, also for locking a chase in position upon the bed of the press.

The nature of my invention will be best understood from a description of one embodiment thereof shown in the accompanying drawings, it being understood, however, that my invention is not restricted thereto.

In the drawings, Figure 1 illustrates a chase containing a form confined by a lock-up embodying my invention, part of the lock-up being shown in section; and Fig. 2, a cross-sectional detail on the dotted line 2 2.

In the particular embodiment of my invention selected for illustration herein and shown in the drawings, *a* is a usual chase, containing a relatively small form *b*, which is to be locked therein. In one direction said form may be locked in usual manner by furniture—such, for instance, as the block *c* and the quoin *d*. In the other direction, lengthwise the chase, said form is shown locked by an extensible lock-up, illustrating my invention. As hereshown, said lock-up comprises the relatively movable members *e f*. The member *e* comprises a quoin-like base *e'* of suitable construction—such, for instance, as the well-known "Wickersham quoin," shown and described in United States Letters Patent No. 453,226, dated June 2, 1891, the same being operated by a key inserted at *e²* and manipulated in usual manner. One of the faces of the member *e* is provided with a longitudinal channel or groove *e³* to receive the member *f*, which is adapted to slide therein. One of the side walls of the groove *e³* is channeled, as at *e⁴*, to receive the guiding-lug *f'* on the member *f*.

It is necessary to lock the said members *e f* firmly in desired position one relative to the other to insure permanency and stability of the lock-up. For this purpose I have provided the member *f* at one of its side faces with a series of recesses *f²*, preferably cylindrical, or other shape presenting parallel side walls. Coöperating with these recesses is one or more locking-pins *e⁵*, mounted for in-and-out movement in long bearings in the member *e* and carried by a head *e⁶*, having a T-shaped lug *e⁷*, which is engaged by the slotted end of the finger-lever *e⁸*, pivoted at *e⁹* and acted upon by a spring *e¹⁰*. The said spring maintains the locking-pins in normal locking engagement with corresponding recesses in the member *e*, from which they may be released by depression of the finger-lever *e⁸*. These pins, as shown, lock against movement in both directions.

In use the lock-up is placed in position and with the finger-lever depressed its members are extended to obtain the closest approximate adjustment possible with the locking-pins and recesses described. Final adjustment and locking are then obtained by means of the quoin-like base *e'*, which is expanded by use of the key at *e²*. The engagement between the locking-pins *e⁵* and the recesses *f²* is sure and reliable, and the quoin-like base *e'* furnishes a most efficient means for obtaining the final lock-up. Consequently there is no liability of accidental loosening.

Preferably the member *f* has a transverse head *f³* to obtain a better bearing on the wall against which it rests, and the separable members 1 2 of the quoin-like base *e'* are also extended at either side beyond the member *e* to furnish a long foot-like bearing for the said member. A convenient construction is to form said base by attaching an ordinary quoin to said member, as by the screws 3.

The member *f* is exposed at the side of the member *e* for engagement by the fingers of the operator, thus facilitating approximate preliminary adjustment.

The number of locking pins or projections may be varied at will.

Having described one embodiment of my

invention and without limiting myself to details, what I claim, and desire to secure by Letters Patent, is—

1. An extensible lock-up device comprising
5 the relatively sliding members, one provided with a series of recesses, the other with one or more simultaneously-operating locking devices to positively lock said member in all directions, the pivoted actuating-lever there-
10 for, and other quoin-like adjusting means for the purpose described.

2. An extensible lock-up device comprising two members, one having sliding engagement with the other, means comprising spring-
15 operated pin on one member and recess on the other member to positively lock said members in all directions in approximate adjustment, and a quoin mounted upon the end of one of said members and constituting an ex-
20 tended base therefor.

3. In an extensible lock-up device, a plurality of relatively slidable members, a plurality of locking-recesses on one of said members, cooperating locking-pins on the other
25 member and supplemental quoin-like adjusting means at one extremity of one of said members.

4. In an extensible lock-up device, a plurality of relatively longitudinally slidable members, a plurality of locking-recesses on
30 one of said members, cooperating sliding locking-pins on the other member whereby the members are positively locked in all directions, and supplemental quoin-like adjusting means at one extremity of one of said
35 members.

5. In an extensible lock-up device, a plurality of relatively slidable members, one member provided with a groove within which the other member is adjustable, a plurality
40 of locking-recesses in one of said members, a plurality of locking-pins on the other member, a spring-actuated lever for throwing said pins into and out of engagement with said recesses and supplemental quoin-like adjusting
45 means on one extremity of one of said members.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

SAMUEL STEPHENS.

Witnesses:

FREDERICK L. EMERY,
EVERETT S. EMERY.