

No. 834,625.

PATENTED OCT. 30, 1906.

J. C. LOGAN.  
PAPER FASTENER.  
APPLICATION FILED FEB. 24, 1906.

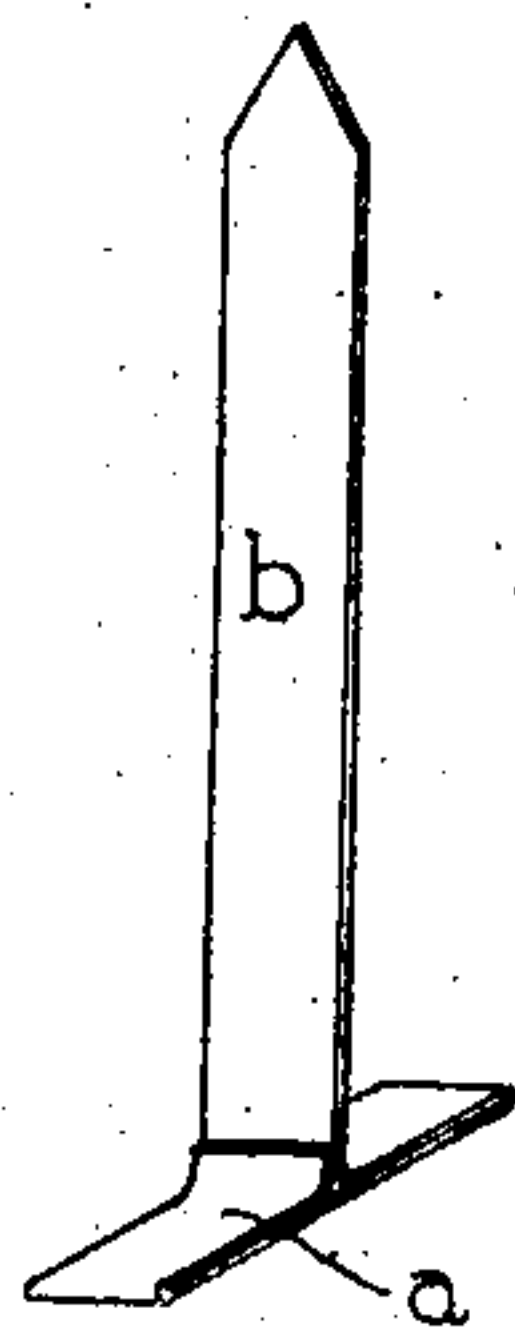


Fig. 1.

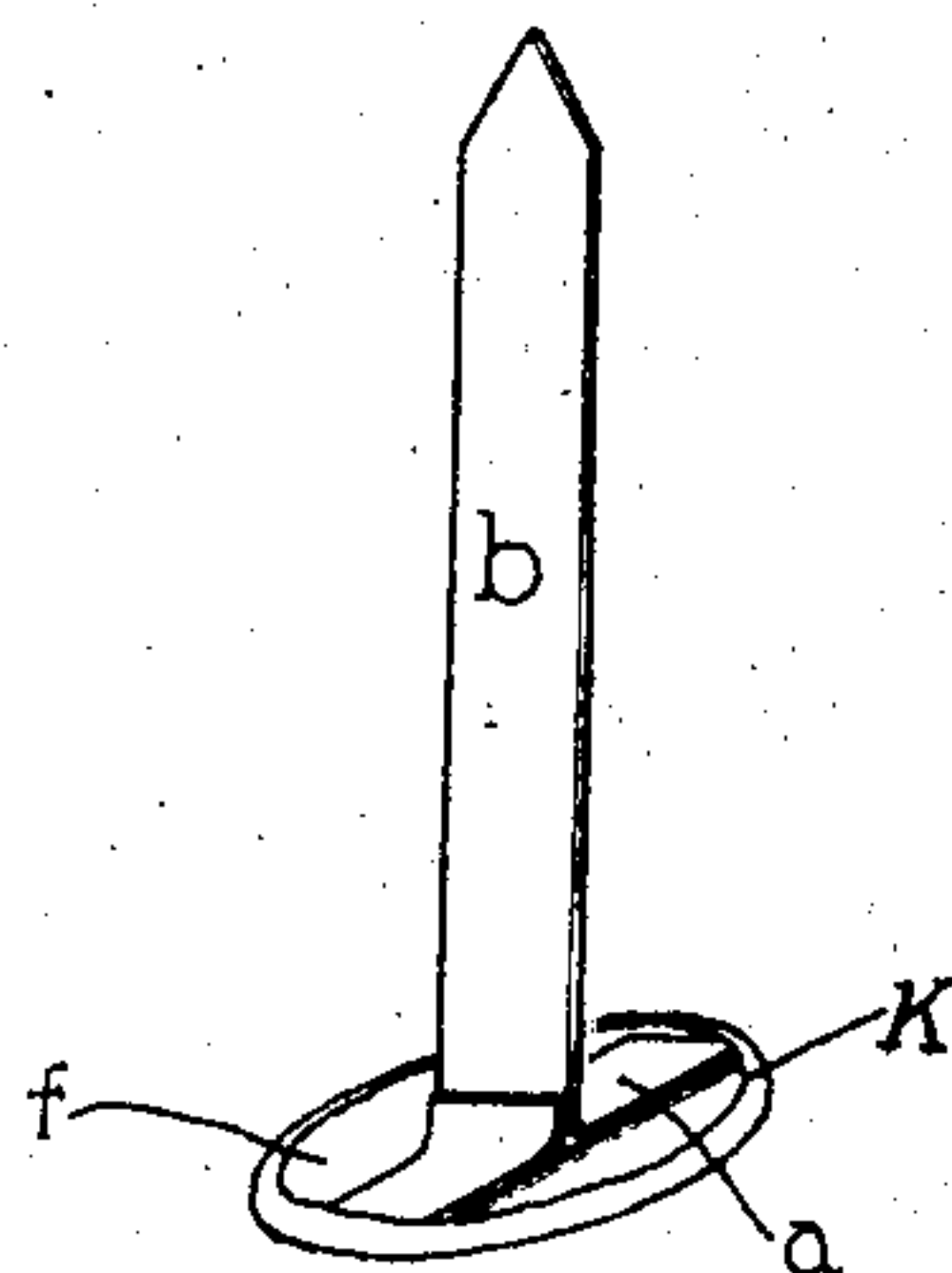


Fig. 2.

Fig. 3.

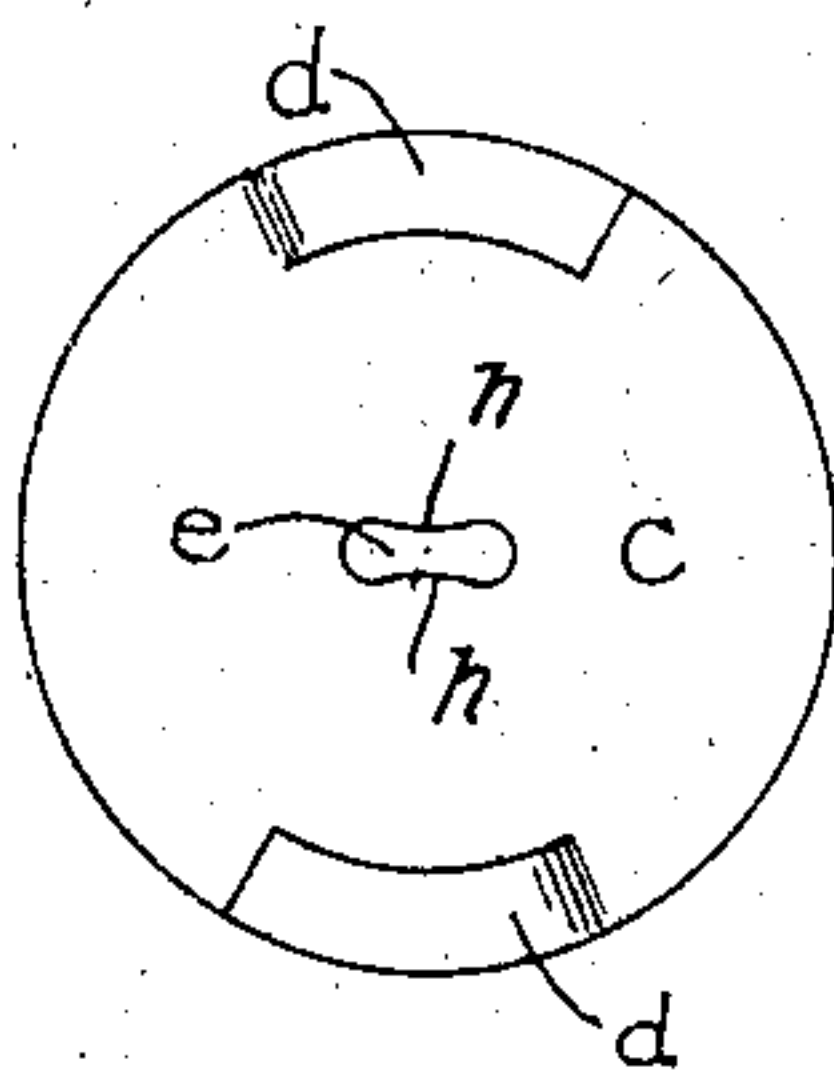
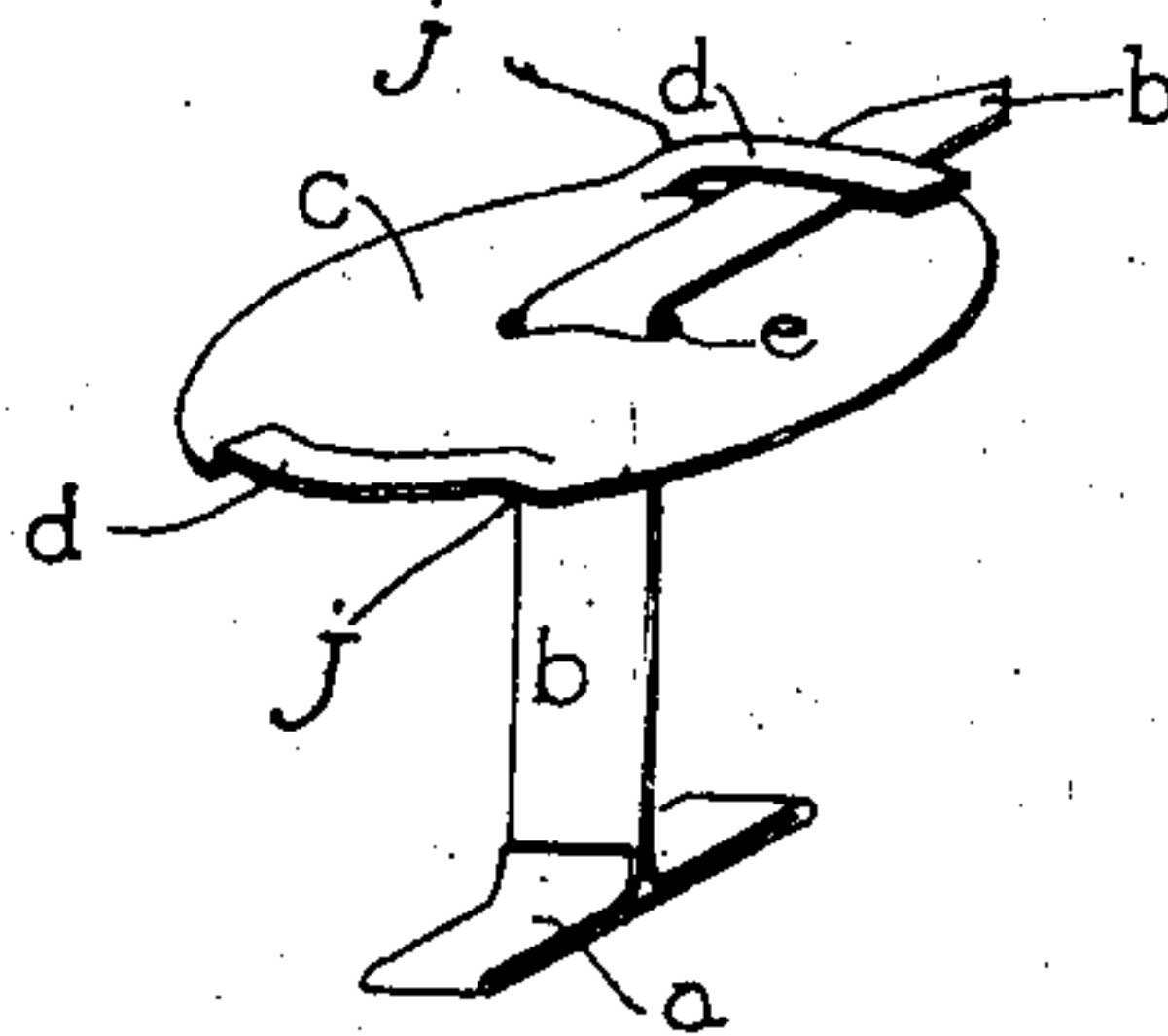


Fig. 4.



Witnesses

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# UNITED STATES PATENT OFFICE.

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## PAPER-FASTENER.

No. 834,625.

Specification of Letters Patent.

Patented Oct. 30, 1906.

Application filed February 24, 1906. Serial No. 302,698.

*To all whom it may concern:*

Be it known that I, JOSEPH CLAYTON LOGAN, a citizen of the United States, residing at Atlanta, in the county of Fulton and State of Georgia, have invented a new and useful Paper-Fastener, of which the following is a specification.

This invention relates to paper-fasteners, and has for its object to provide a comparatively simple and inexpensive fastener for holding together a file of papers which must be added to from time to time and for receiving such additional papers as are necessary to complete the file.

A further object of the invention is to provide a fastener the shank of which is provided with a terminal point adapted to pierce the papers to be filed, said shank being locked in engagement with the papers by a removable cap or disk.

A further object is to form the cap with oppositely-disposed spring locking members adapted to engage the pointed terminal of the shank, and thereby prevent accidental displacement of the same.

A still further object of the invention is to generally improve this class of devices so as to increase their utility, durability, and efficiency, as well as to reduce the cost of manufacture.

With these and other objects in view the invention consists in the construction and novel combination and arrangement of parts hereinafter fully described, and illustrated in the accompanying drawings, it being understood that various changes in form, proportions, and minor details of construction may be resorted to within the scope of the appended claims.

In the accompanying drawings, forming a part of this specification, Figure 1 is a perspective view of the piercing member or shank of the fastener. Fig. 2 is a similar view showing the base in position on the shank. Fig. 3 is a top plan view of the locking-cap detached. Fig. 4 is a perspective view showing the cap in position on the shank or piercing member.

Similar characters of reference indicate corresponding parts in all of the figures of the drawings.

The improved fastener comprises a shank or body portion *b*, preferably formed of a single strip of metal or other suitable material, one end of which is provided with a piercing-

point, while the opposite end thereof is bent upon itself and extended laterally in opposite directions to form a base *a*.

Associated with the shank *b* is a cap or locking member *c*, preferably circular in form, as shown, and provided with an elongated slot or opening *e* for the reception of the shank *b* and having its side walls extended inwardly to form central projections *h*, adapted to engage the shank *b* when the latter is bent downwardly on top of the cap, as best shown in Fig. 4 of the drawings.

The cap *c* is provided with oppositely-disposed concentric circumferential slits *i*, spaced inwardly from the periphery of the cap, the severed portion of the cap being upstruck and spaced from the top of the latter, thereby to form spring locking members *d*, adapted to receive the pointed terminal of the shank *b*, as shown.

The locking members *d* are each provided with offset portions or shoulders *j*, adapted to engage the adjacent longitudinal edge of the shank *b* when the cap is rotated thereby to limit the rotary movement of said cap. In some cases the shank *d* may be provided with a plate or disk *f*, the marginal edge of which is bent upwardly to form an annular flange *k*, adapted to bear against the base *a*, and thereby lock the parts together.

In operation the pointed end of the shank *b* is threaded through the prescriptions, bills, or other papers to be filed and thence passed through the opening *e* and bent substantially at right angles, as shown. The cap *c* is then partially rotated, which causes the adjacent locking member or lip *d* to engage the pointed terminal of the shank, and thus hold the several papers securely bound together.

In order to release the papers or to add additional papers to the file, it is merely necessary to rotate the cap *c* in the opposite direction, when the pointed end of the shank *b* will be released from the locking member *d*, thus permitting the same to be bent laterally to a perpendicular position and the cap *c* removed, so as to permit the filing of the additional papers.

Attention is called to the fact that the projections *h* have a tendency to bite into the walls of the shank *b*, and thus assist in holding the shank in bent or locked position, while the size of the opening *e* permits the cap to be partially rotated, so as to release or lock the shank *f* without danger of binding.



From the foregoing description it will be seen that there is provided an extremely simple, inexpensive, and efficient device admirably adapted for the attainment of the ends in view.

What I claim is—

1. A paper-fastener comprising a shank having a pointed terminal, and a cap provided with an opening adapted to receive the shank and having circumferential concentric slits formed therein, the metal at said slits being upstruck and spaced from the cap for engagement with the pointed terminal of the shank.

2. A paper-fastener comprising a shank, and a cap having an elongated slot formed therein for the reception of the shank and provided with oppositely-disposed spring locking members adapted to engage said shank, there being projections extending inwardly from the walls of the slot and adapted to bear against the shank.

3. A paper-fastener comprising a shank having a pointed terminal, a cap having a central opening formed therein for the reception of the shank and provided with concentric slits disposed inwardly from the periphery of the cap, the metal at said slits being upstruck and provided with offset portions defining spring locking members adapted to engage the pointed terminal of the shank.

4. A paper-fastener comprising a shank having one end thereof bent upon itself and extending laterally in opposite directions to form a base and its opposite end provided with a pointed terminal, a cap having a central opening formed therein for the reception of the pointed end of the shank and provided with oppositely-disposed spring locking mem-

bers disposed concentric with the opening in the plate and adapted to engage said shank.

5. A paper-fastener comprising a shank having one end thereof bent upon itself and extended laterally in opposite directions to form a base and its opposite end provided with a pointed terminal, a cap comprising a flat metal disk having an elongated opening formed in the center thereof for the reception of the shank and provided with concentric circumferential slits spaced inwardly from the periphery of the cap and struck up to form spring locking members adapted to engage the shank.

6. A paper-fastener comprising a shank having one end thereof bent upon itself and extended laterally in opposite directions to form a base and its opposite end provided with a pointed terminal, a plate secured to the base, and a cap comprising a circular metal disk having an elongated opening formed in the center thereof for the reception of the shank and provided with concentric circumferential slits spaced inwardly from the periphery of the disk and upstruck to form spring locking members adapted to engage the pointed terminal of the shank, the walls of the slot being provided with inwardly-extending projections adapted to bear against the shank when the latter is in engagement with the adjacent locking member.

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

J. CLAYTON LOGAN.

Witnesses:

F. L. NEUFVILLE,  
FRAMPTON E. ELLIS.