W. H. ROWLEY.

Standard Jack-Post, Cap, Box, and Fastening.

No. 226,200. Patented April 6, 1880.

FIG. 1

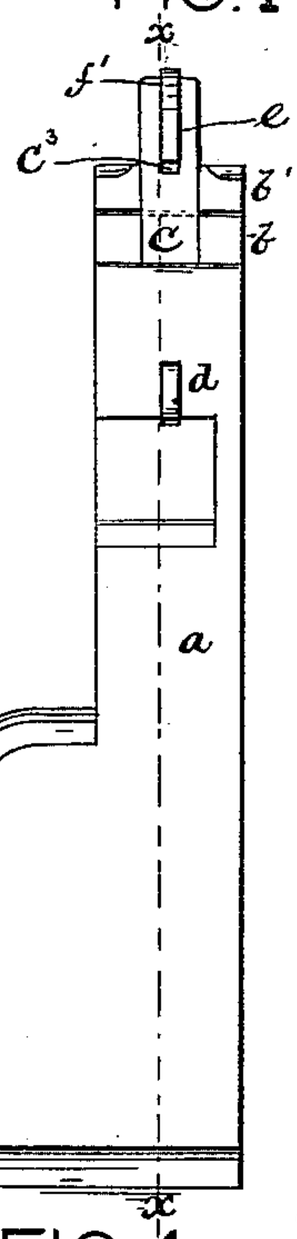


FIG. 2.

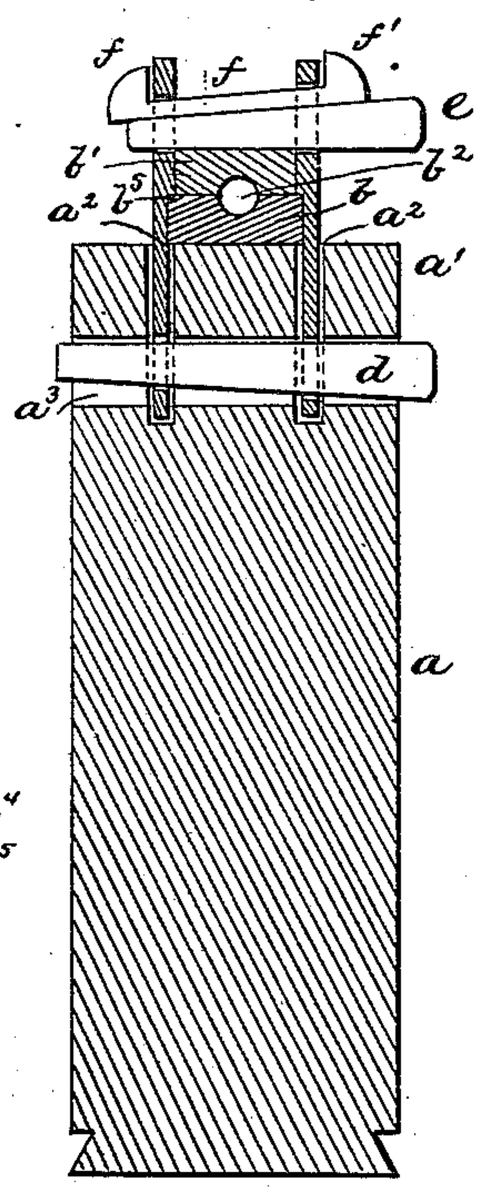


FIG. 3.

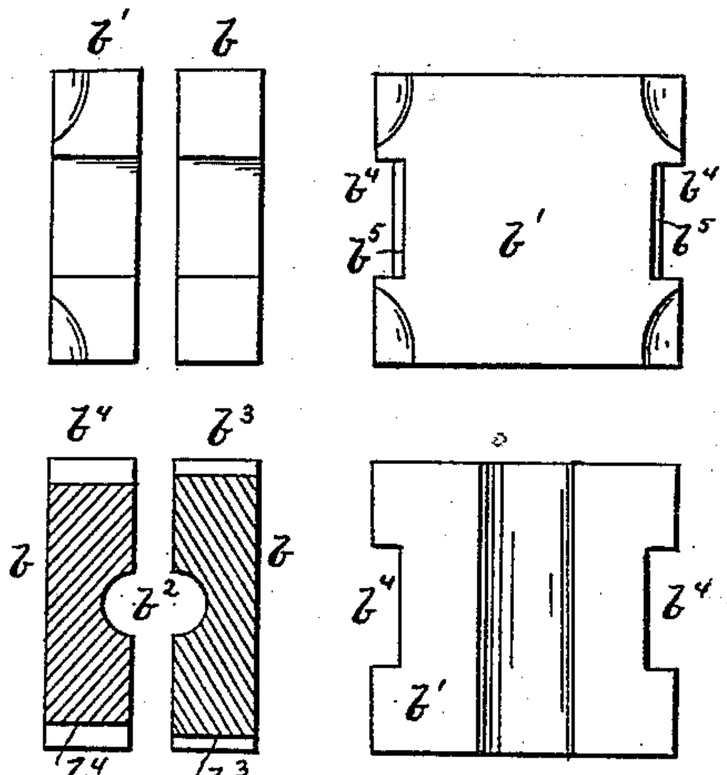


FIG. 4.

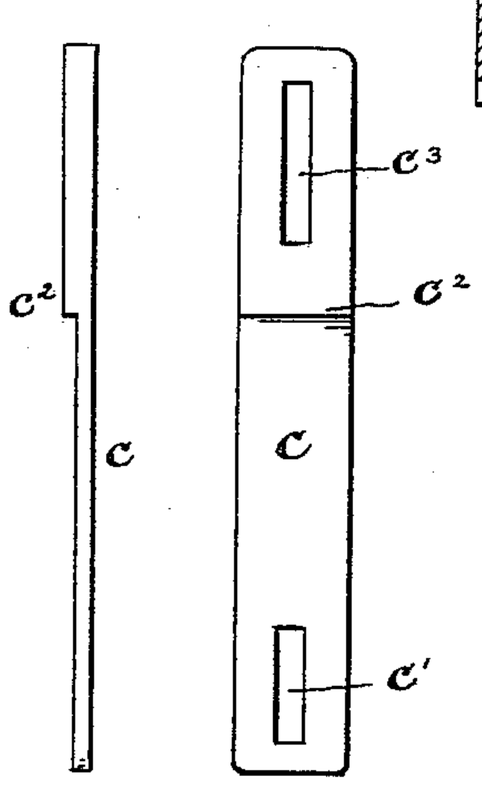


FIG. 5.

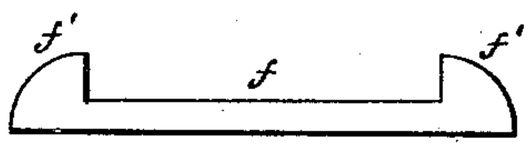
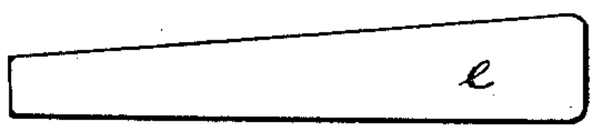


FIG. 6.



Witnesses:
R. B. Turpin
Frank Green

Inventor:
William H Rowley
By R. S. & A. P. Lacey Atty's:

UNITED STATES PATENT OFFICE.

WILLIAM H. ROWLEY, OF CRAWFORD'S CORNERS, PA., ASSIGNOR OF ONE-HALF OF HIS RIGHT TO C. J. CRAWFORD, OF SAME PLACE.

STANDARD JACK-POST, CAP-BOX, AND FASTENING.

SPECIFICATION forming part of Letters Patent No. 226,200, dated April 6, 1880.

Application filed February 19, 1880.

To all whom it may concern:

Be it known that I, WILLIAM H. ROWLEY, a citizen of the United States, and resident at Crawford's Corners, in the county of Butler and State of Pennsylvania, have invented certain new and useful Improvements in Standard Jack-Posts, Cap-Boxes, and Fastenings; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as 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 letters of reference marked thereon, which form a part of this specification.

This invention has for its object to furnish an improved cap or journal box and fastenings for standard jack-posts.

It consists in the peculiar construction of the plates and the bars which hold them to the post, and in other things, all of which will be hereinafter fully explained.

In the drawings, Figure 1 is an edge elevation of the post having my cap applied thereto. Fig. 2 is a vertical section on the line *x x*, Fig. 1. Fig. 3 shows the plates which form the journal-box. Fig. 4 shows the retaining-bar; and Figs. 5 and 6 are the keys for holding the parts together and to the post.

a is the post, which has its upper end, *a'*, made flat, as shown. In the upper end there are formed the two vertical mortises or holes a^2 a^2 and the cross-mortise or key-hole a^3. The cross-mortise a^3 is formed at right angles to and communicates with the inner ends of the vertical mortises a^2 a^2, as shown.

b b' are the under and upper plates which compose the journal-box or cap. They are snugly fitted together and are made with suitably-formed bearings, so that when brought together an opening, b^2, is provided to receive the gudgeon of the main operating-shaft, which carries the main wheel and walking-beam. On opposite sides of the plates *b b'* there are formed vertical slots or mortises b^3 b^4, which coincide with each other and are adapted to receive the retaining-bars, hereinafter described. The side mortises, b^3, in the under plate, *b*, are not so deep cut as the side mortises, b^4, in the upper plate, *b'*, so that when the two plates are placed together the edge of the under plate will project slightly beyond the inner side of the mortise in the upper plate and present shoulders or ledges b^5, as in Figs. 2 and 3. The plates *b b'* rest on top of the post *a* and between the inner sides of the mortises b^3 flush with the inner sides of the vertical mortises a^2 a^2 in the post *a*.

c c are the retaining-bars, which are inserted in the mortises a^2 a^2 in the upper end of the post *a*. They are provided with slots *c'* in their inner ends so arranged as to cross the mortise a^3 and receive a key, *d*, which is driven therein, as shown in Fig. 2. The outer ends project beyond the top *a'* and fit snugly into the side mortises, b^3 b^4, in the plates *b b'*. They have formed on their inner sides the shoulders c^2 c^2, arranged to fit snugly over the ledge or shoulder b^5 on the under plate and hold the latter firmly to the top of the post. The upper plate, *b'*, slides down between the upper ends of retaining-bars *c c*, and is prevented from slipping out of place by the slots or mortises b^4 b^4. The upper plate, *b'*, may be lifted out of its place without disturbing the position of the under plates.

In the upper ends of the retaining-bars *c c* there are formed key-slots c^3, which receive the key *e*. The under ends of the slots c^3 are flush with or slightly below the upper surface of the top plate, *b'*; so the edge of the key *e* bears directly on the said plate *b'*, as shown.

f is the gib, having the hooks *f' f'* on its opposite ends and which is placed above the key *e*. It prevents the upper ends of the bars *c c* from being opened or spread apart.

With the journal-box made and held to the post in the manner hereinbefore described the continual breaking of bolts and caps is obviated.

In the ordinary caps there is a constant expense incurred, as well as great loss of time, by the continual breaking of the cap and of the bolts which are employed to hold the plates of the cap to the upper end of the post.

In my device the upper plate, *b'*, may be readily removed from its place for any desired purpose, while the under plate, *b*, remains rigidly held in its place by the shoulders c^2 on

the bars *c*. The bars also, by their position in the side slots, b^3, prevent the plate *b* from sliding endwise on the top of the post.

Instead of having the shoulders formed on the bars, as described, they may be formed on the edges thereof and project laterally over the upper side of the under plate, in which case the side slots in both plates will be of the same depth.

I do not confine myself to the particular arrangement of the shoulders c^2 on the bars *c*.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

1. The combination, with the post *a*, having the vertical mortises a^2 a^2 and cross-mortise a^3, arranged to connect as described, and the under plate, b', having side slots or mortises, b^3, of the retaining-bars *c*, having slots c' in their lower ends and shoulders c^2 on their outer ends, and key *d*, all arranged substantially as and for the purpose set forth.

2. The combination, with the post *a*, having mortises a^2 a^2 and a^3, arranged as described, and the plates *b* b', having side slots or mortises, b^3 b^4, arranged to coincide and provide a shoulder or ledge, b^5, in the under plate, of the retaining-bars *c*, having key-slots c' and c^3 and shoulders c^2, keys *d* and *e*, and gib *f*, all arranged to operate substantially as and for the purposes set forth.

In testimony that I claim the foregoing I have hereunto set my hand and seal this 4th day of February, 1880.

WILLIAM HENRY ROWLEY. [L. S.]

Witnesses:

WM. BRANTHOVER,

F. M. HILL.