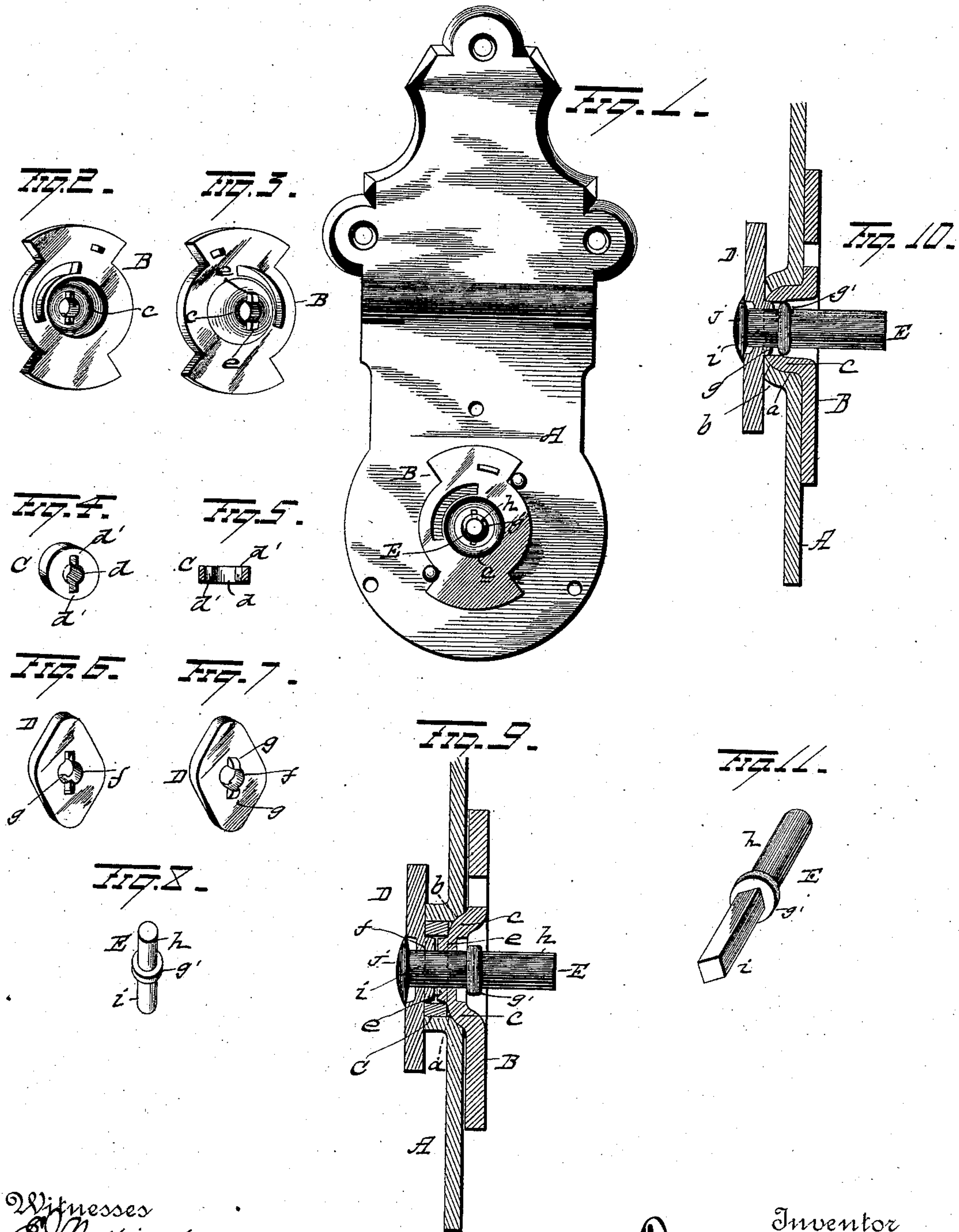


(Model.)

F. W. MIX.
HASP LOCK.

No. 365,534.

Patented June 28, 1887



Witnesses
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By his Attorney
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UNITED STATES PATENT OFFICE.

FRANK W. MIX, OF NEW BRITAIN, CONNECTICUT.

HASP-LOCK.

SPECIFICATION forming part of Letters Patent No. 365,534, dated June 28, 1887.

Application filed April 27, 1887. Serial No. 236,290. (Model.)

To all whom it may concern:

Be it known that I, FRANK W. MIX, of New Britain, in the county of Hartford and State of Connecticut, have invented certain new and
5 useful Improvements in Hasp-Locks; 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.

10 My invention relates to an improvement in hasp-locks, the object being to simplify and cheapen the construction of certain parts of a lock; and with this end in view the invention consists in certain features of construction
15 and combinations of parts, as will be hereinafter described, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a plan view of a hasp-lock, the lock-plate being removed to show the interior portions of
20 the lock. Fig. 2 is a view in perspective of one side, and Fig. 3 a similar view of the other side, of the lock-bolt. Fig. 4 is a perspective view, and Fig. 5 a view in section, of the spacing collet or washer. Fig. 6 is a view
25 in perspective of one side, and Fig. 7 a similar view of the other side, of the button. Fig. 8 is a view in perspective of the key-post. Fig. 9 is a vertical section of the hasp-plate with the lock secured thereto, and Figs. 10
30 and 11 represent modifications.

A is the hasp-plate, which is preferably stamped out of sheet metal, and has a hole, *a*,
35 formed therein. A socket or recess, *b*, is formed concentric with hole *a* for the reception of the boss *c*, swaged or struck up on one face of the lock-bolt B, which latter is stamped
40 from sheet metal. The boss *c* constitutes an enlarged bearing for the lock-bolt to rotate in recess *b* in the hasp-plate.

40 C is a spacing collet or washer, which is stamped from sheet metal, and has formed therein a central hole, *d*, and lateral rectangular openings *d'*. This collet or washer is
45 placed against the rear face of the lock-bolt, the openings *d'* therein receiving the spurs or projections *e e*, which are struck up from the rear surface of the boss *c* on the lock-bolt.

50 D is the button, which is also stamped out of sheet metal, and is provided with a central hole, *f*, and with spurs or projections *g g*,

which latter fit into the openings *d' d'* in the spacing-collet.

The key-post E is made with a collar, *g'*, which latter rests upon the lock-bolt and within the recess formed therein, the portion *h*
55 thereof constituting the key-post, while the portion *i* forms a rivet which passes through the lock-bolt, spacing-collet, and button.

By upsetting the end *j* of the rivet the several parts described—viz., the lock-bolt, spacing-collet, and the button—are firmly secured
60 together, and also the several parts in question are so connected and interlocked by the spurs entering the collet that they operate in effect as though made in a single piece, and
65 are securely retained against rotary displacement.

By the construction and arrangement of parts described I am enabled to form all of
70 them from sheet metal by stamping them out by suitable dies and punches, and thus insure uniform size and shape to all the parts. By this, a saving in time and expense in the construction and assemblage of the different parts of the lock
75 in question is secured, as heretofore these parts have been made in whole or in part of cast metal, which called for an outlay of skilled labor, which I dispense with.

I may omit the use of the collet by forming a boss of such depth on the locking-bolt that
80 it will project through the hasp-plate a sufficient distance to allow the button to be fastened thereto and still leave sufficient space between the button and hasp-plate for the reception of the edge of the lock-cup. This construction is illustrated in Fig. 10. Again, instead of forming the spurs so as to interlock
85 with the openings in the collet, I may secure the same result by making the portion *i* of the key-post square or of other angular form in cross-section, and making correspondingly-
90 shaped holes in the lock-bolt, collet, and button, so that when the rivet is upset and fastened all the parts will be firmly secured together. This construction is shown in Fig. 11.

95 As it is evident that many slight changes in the construction and arrangement of parts may be resorted to without departing from the spirit of my invention, I would have it understood that I do not limit myself to the particu-
100

lar construction and arrangement of parts as shown and described; but,

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

1. The combination, with the lock-bolt and button, of a key-post passing through the lock-plate and button, and secured therein by upsetting the end of the key-post that is adjacent to the button, substantially as set forth.

2. The lock-bolt stamped from sheet metal and provided with a boss which is seated in a recess in the lock-plate, substantially as set forth.

3. The combination, with the lock-bolt, spacing-collet, and button, of interlocking spurs and recesses for securing said parts against rotary displacement, substantially as set forth.

4. The combination, with the hasp-plate, lock-bolt, collet, and button, of the combined key-post and rivet, substantially as set forth.

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

FRANK W. MIX.

Witnesses:

HENRY A. SEYMOUR,

GEO. W. CORBIN.