

H. MEYER.

HINGE.

(Application filed July 22, 1899.)

(No Model.)

Fig. 1.

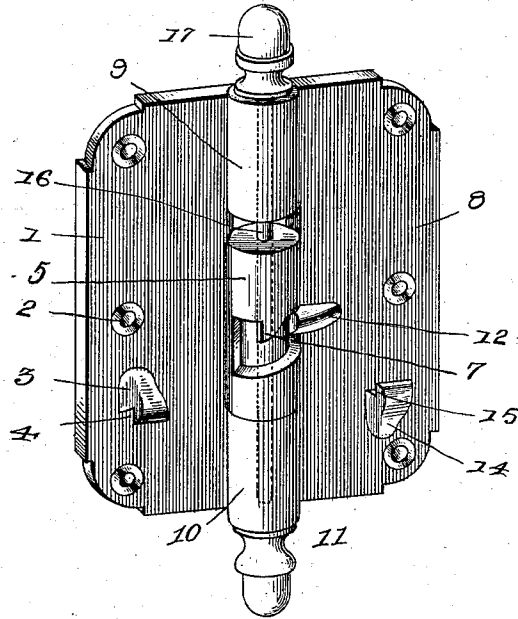


Fig. 2.

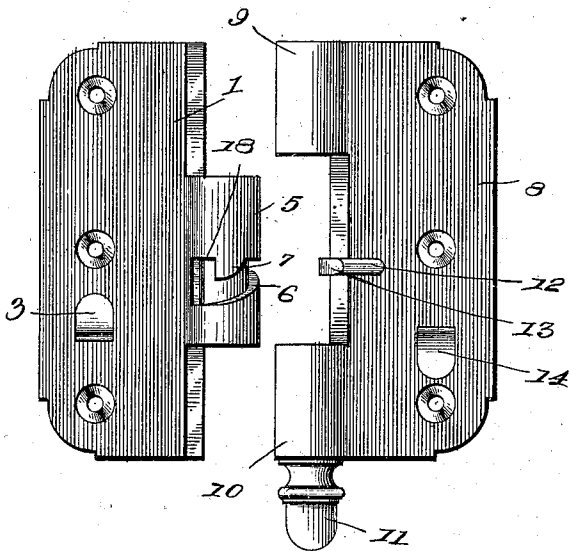
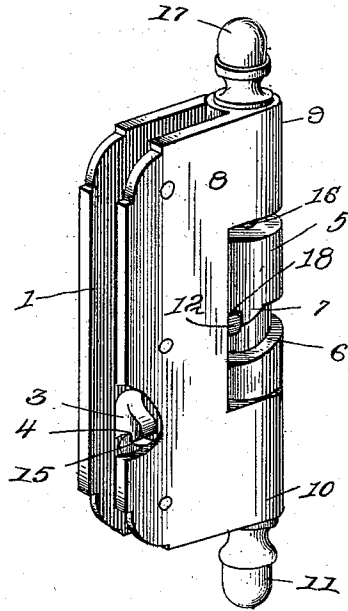


Fig. 3.



WITNESSES:

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HENRY MEYER, OF ATLANTA, GEORGIA.

HINGE.

SPECIFICATION forming part of Letters Patent No. 651,876, dated June 19, 1900.

Application filed July 22, 1899. Serial No. 724,829. (No model.)

To all whom it may concern:

Be it known that I, HENRY MEYER, a citizen of the United States, residing at Atlanta, in the county of Fulton and State of Georgia, have invented a new and useful Improvement in Hinges, of which the following is a specification.

My invention relates to hinges generally; but more especially to that class of hinges designed to be automatically locked in the act of opening to obviate the slamming of the shutter. It will of course be understood that this hinge is adapted to be used on gates, doors, or any other movable member which it is desired to hold in a predetermined position.

The object of the invention is to produce a cheap simple automatic-locking hinge of such construction that the working parts are thoroughly protected from the weather, which is especially desirable in the winter.

The invention consists of a hinge each member of which is provided with interlocking lugs and a cam-slot and pin, respectively; and it consists, further, of the parts and combination of parts, as will be more fully hereinafter pointed out.

In the drawings which accompany and form part of this application Figure 1 is a perspective view of my improved hinge. Fig. 2 is a front elevation of the same, the members being detached. Fig. 3 is a perspective view of the hinge, the members being opened and locked, part of one member being broken away to clearly show the interlocking lugs.

1 represents one of the members of my improved hinge, having the usual screw-holes 2.

3 is a lug cast integral with the member and having an undercut 4, which forms a hook or catch.

5 is the usual pintle-lug extending from the inner edge of the member 1. This lug, instead of being of the usual construction, is provided with a cam-groove 6 and a cam-lug 7, depending from the upper edge of said groove.

8 is the other member of the hinge, provided with the usual pintle-lugs 9 and 10, each provided with the usual pintle-bore. The lug 10 is provided with a depending lug 11 of any style or form which closes the pintle-opening in the said lug to prevent the pintle-pin from

slipping through the hinge, as is well understood by those skilled in this art.

12 is a lug extending from the inner edge of the member 8, the inner extreme end of which is curved or concaved to conform to the bottom of the cam-groove 6, as will be apparent from the drawings.

14 is a lug cast integrally with the member 8 and provided with an undercut 15 to form a catch or hook.

16 is the pintle-pin, adapted to pass through the bores in the pintle-lugs above described and provided with a head 17, by means of which said pin is withdrawn or inserted to secure the members of the hinge together.

The hinge being assembled, as shown in Fig. 1, and the blinds or gate being gradually opened, the members are brought toward each other until the lug 12 strikes the cam 7, whereupon the cam rides upward upon the pin 12, thereby slightly raising the member 1 and holds it in that elevated position until the lugs 13 and 14 are immediately in line with each other. When the members are in this position with relation to each other, the pintle-lug 12 is directly in line with the recess 18 back of the cam-lug 7, whereupon the weight of the shutter or gate, having no further support, pulls the member 1 downward until the lug 12 is snugly seated in the recess 18, whereupon the hook on the lug 3 becomes engaged with the hook upon the lug 14, thus locking the shutters or gate securely in this position.

From Fig. 1 it will be noticed that there is a space between the bottom of the pintle 9 and the top of the pintle-lug 5. This is left to permit of the movement incident to the member 1 under the action of the cam and pin or lug 12, as will be readily understood.

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

A hinge comprising two members and a pintle, one of the members having a pintle-lug at each end and a lug at the center, the end of the central lug being curved, and the other member being provided with a pintle-lug at the center, said pintle-lug being of a less length than the distance between the pintle-lugs of the other member, and being pro-

vided intermediate its ends with a cam-groove,
the upper edge of which is provided with an
inclined depending lug in position to engage
with the curved end of the central lug on the
5 other member and move the two members
longitudinally of each other, the outer edges
of the members being provided with hooked

lugs in position to engage with each other
and lock the members together.

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Witnesses:

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