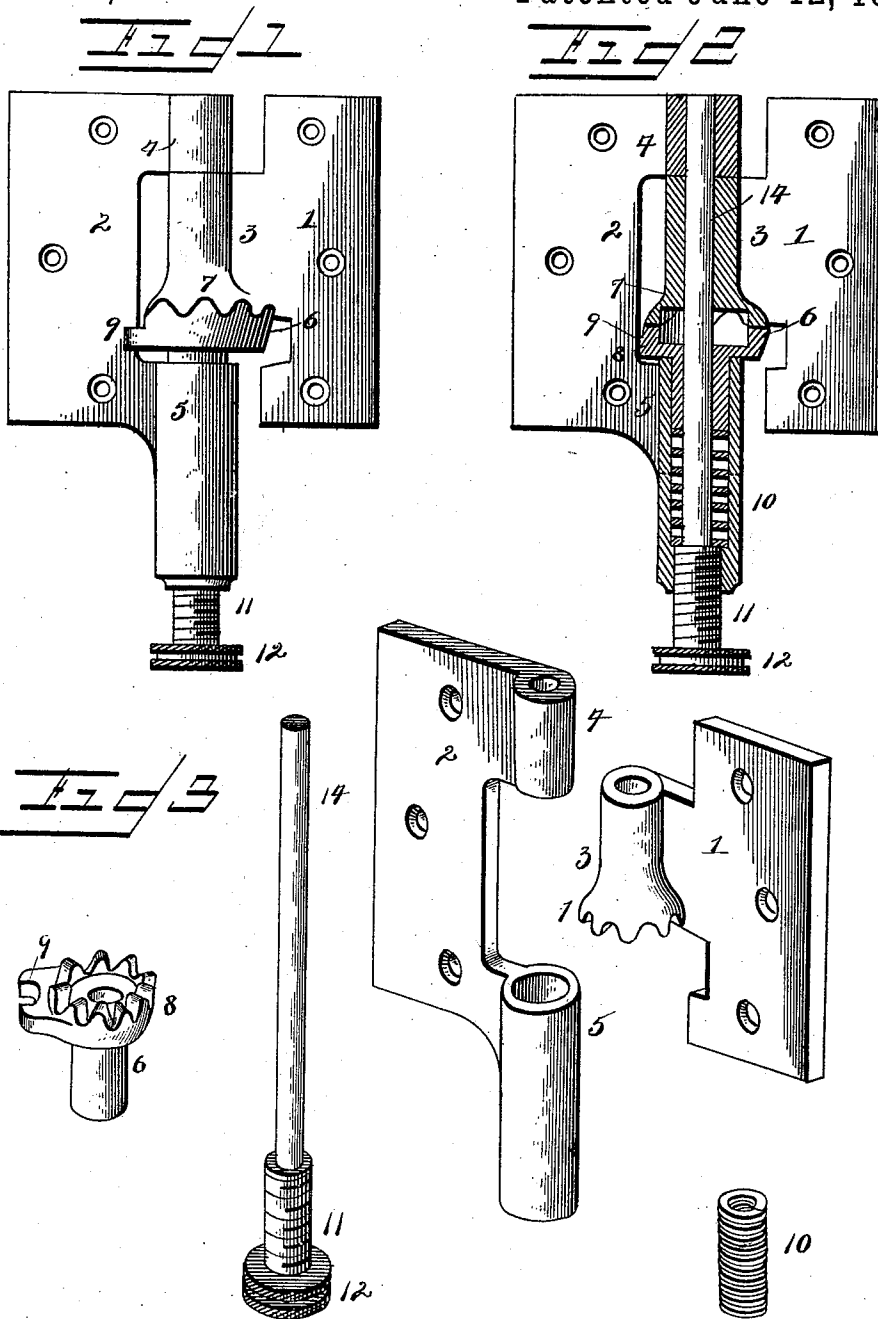


(No Model.)

W. T. BESSONETTE.
LOCK HINGE.

No. 521,429.

Patented June 12, 1894.



William T. Bessonette^{Inventor}

Witnesses

W. Schneider.

By his Attorneys.

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UNITED STATES PATENT OFFICE.

WILLIAM T. BESSONETTE, OF TEMPLE, TEXAS, ASSIGNOR OF TWO-THIRDS
TO CHARLES C. KIRKPATRICK AND WILLIAM P. RYLANDER, OF SAME
PLACE.

LOCK-HINGE.

SPECIFICATION forming part of Letters Patent No. 521,429, dated June 12, 1894.

Application filed August 4, 1893. Serial No. 482,355. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM T. BESSONETTE, a citizen of the United States, residing at Temple, in the county of Bell and State of Texas, have invented a new and useful Combined Door Hinge and Lock, of which the following is a specification.

My invention relates to a combined door hinge and lock, and has for its object to provide, in combination with the hinge of an ordinary general construction, a device whereby the door is automatically locked or held in a set position without special adjustment or manipulation, and by which, by the adjustment of a member provided for that purpose, the door may be locked permanently in any desired position.

The invention is designed especially for use in connection with house and railway passenger coach doors, shutters, gates, &c., and may be applied effectively to screen doors and the like.

Further objects and advantages of my invention will appear in the following description, and the novel features thereof will be particularly pointed out in the appended claims.

In the drawings: Figure 1 is a front view of a hinge embodying my invention. Fig. 2 is a sectional view parallel with the plane of Fig. 1. Fig. 3 is a detail view in perspective, showing the parts of the hinge disassembled.

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

1 and 2 represent, respectively, the leaves of the hinge, the leaf 1 being provided with a single tubular eye 3, which is arranged between and in registration with the tubular eyes 4 and 5 of the leaf 2. The eye 5, which is preferably slightly larger in diameter than the eye 4, is extended beyond the terminal of the leaf to which it is attached, and fitting in its inner end is a slidable plunger 6. This plunger and the contiguous end of the eye 3, between which and the end of the eye 5 such plunger is arranged, are provided respectively with the co-operating members 7 and 8 of a clutch, such clutch-members being provided with intermeshing ratchet faces having beveled teeth whereby they may slide upon

each other as the door is swung to and fro. The clutch-member 8 is provided with a bifurcated guiding lug 9, which engages the inner edge of the leaf 2 to prevent independent rotary movement of the said member, and the stem of the plunger carrying said clutch-member is tubular and registers with the eyes 3 and 4. The slidable clutch-member is spring-actuated, the outer end of the plunger-stem being engaged by an actuating coiled spring 10, which is disposed within the extended eye 5 and is held in operative relation to the plunger by means of an adjusting-screw 11, bearing upon its free or outer end, and threaded in the bore of the eye. This adjusting-screw is provided with a milled head 12, to facilitate adjustment.

14 represents the pivot-pin of the hinge, which extends through the registering eyes 3, 4, and 5, and also through the bore of the plunger, and it is preferably formed integral with the adjusting-screw in order that by withdrawing said screw the parts of the hinge may be disconnected without further manipulation.

This being the construction of my improved hinge, the operation thereof will be readily understood, and briefly is as follows: The slidable clutch-member is normally held in operative relation to the clutch-member carried by the other leaf of the hinge, by means of the actuating spring, the tension of which may be regulated by means of the adjusting-screw. When the tension of said spring is adjusted to permit of the free movement of the door, the slidable clutch-member is, by the co-action of the ratchet-faces, repressed as the door is moved, such clutch-member being returned by its actuating spring as the teeth of the two members come into alignment. Thus, when the door comes to rest the teeth of the clutch-members are in engagement and the door is temporarily locked or held from vibration by the wind or ordinary jar. If, however, it is required to lock the door permanently, the adjusting-screw is manipulated to increase the tension of the actuating spring, thus locking the teeth of the clutch-members in engagement and preventing the movement of the door.

Various changes in the form, proportion,

and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention.

5 Having described the invention, what I claim is—

1. The combination with a hinge, of a clutch
having one of its members secured to and
carried by one of the leaves of the hinge,
10 and the other of its members slidably mounted upon the other leaf of the hinge with its face in operative relation with the first-named member, a spring arranged to actuate the slidable member and hold the same in engagement with the fixed member, and an adjusting screw operatively connected to the spring to vary the tension thereof, substantially as specified.

2. The combination with a hinge having its

leaves connected by a pivot-pin, of a clutch 20
having one of its members fixed to one of the leaves and its other member slidably mounted upon the other leaf, in registration with the eyes forming parts of said leaves, an actuating-spring arranged in operative relation 25
with the slidable member of the clutch, and an adjusting screw, integral with said pivot-pin and engaging one end of the actuating-spring whereby the tension of the latter may be varied, substantially as specified. 30

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

WILLIAM T. BESSONETTE.

Witnesses:

I. T. BROWN,

C. L. BESSONETT.