(No Model.)

R. G. PIKE, Jr.

LOCK HINGE.

No. 457,556. Patented Aug. 11, 1891.

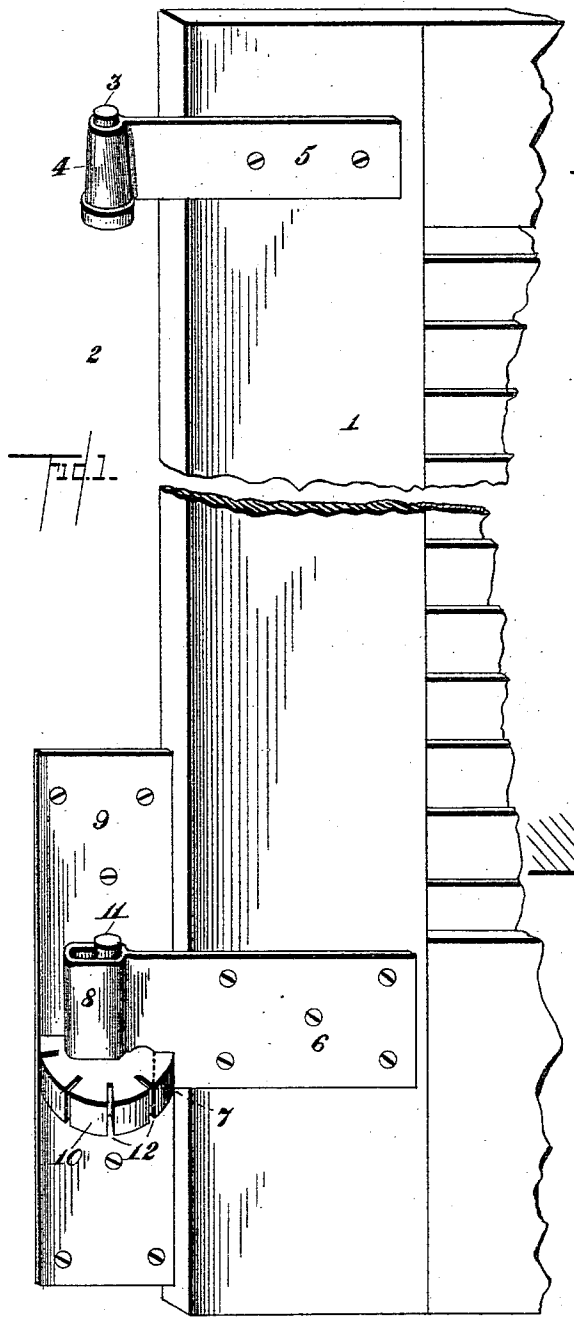


Fig. 1.

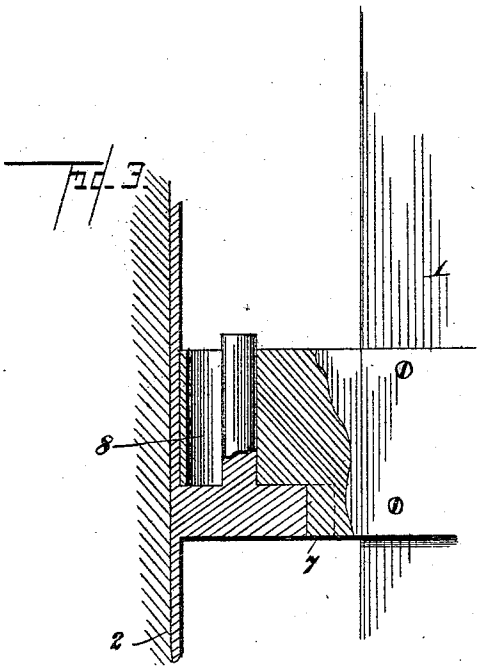


Fig. 3.

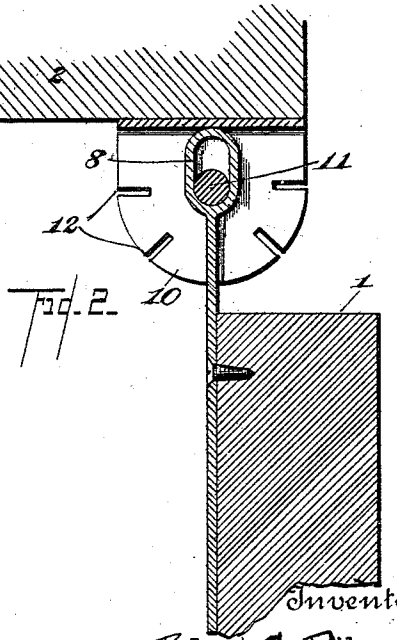


Fig. 2.

Witnesses
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LOCK-HINGE.

SPECIFICATION forming part of Letters Patent No. 457,556, dated August 11, 1891.

Application filed February 14, 1891. Serial No. 381,518. (No model.)

To all whom it may concern:

Be it known that I, ROBERT G. PIKE, Jr., a citizen of the United States, residing at the city of Brooklyn, in the county of Kings and State of New York, have invented a new and useful Improvement in Metal Hinges for Blinds, Shutters, Doors, and the Like, of which the following is a true description, reference being had to the accompanying drawings, which make a part of this my specification.

This invention relates to hinges, and is especially adapted for connecting shutters to window-frames; and the objects in view are to provide a hinge of extremely cheap and simple construction and which will be self-locking, and adapted for retaining the shutter at any desired angle—that is, either opened or closed or at any intermediate point.

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

Referring to the drawings, Figure 1 is a perspective of a portion of a shutter and window-frame, the former being shown closed and connected to the latter by a hinge constructed in accordance with my invention. Fig. 2 is a horizontal section through the hinge. Fig. 3 is a vertical longitudinal section through the pintle of the hinge, the shutter being shown half open.

Like numerals of reference indicate like parts in all the figures of the drawings.

1 designates the shutter, and 2 the window-casing. From the casing, near the upper end thereof, extends a vertical pintle 3, which engages and is received by a conical eye 4, formed upon the outer end of a hinge section or leaf 5, the latter being secured, as shown, to the face of the shutter. Near the lower end of the shutter there is secured to the face a leaf or hinge-section 6, which latter is reduced at its outer end, forming a shoulder 7, and above the same terminates in an elongated eye 8, longitudinally disposed with relation to the leaf 6. A securing-plate 9, secured to the window frame or casing, is provided with an oppositely-disposed horizontal semicircular bracket 10, from which rises a concentrically-located vertical pintle or stud 11. The periphery of the bracket is provided with a series of radial notches or recesses 12.

In practice the elongated eye 8 receives the pintle 11. The parts being in the position shown in Fig. 1, it will be observed that the shutter is closed and that the shoulder 7 rests within and is engaged by one of the notches 12 of the bracket, whereby it is prevented from swinging upon its pintles. In order to open the shutter, the same is drawn laterally, so that the shoulder 7 is disengaged from its engaging-notch, such lateral movement upon the part of the shutter being permissible by means of the conoid form given the upper hinge-eye. After the shoulder has been thus disengaged it will be obvious that the shutter may be swung open, and if freed will drop into the first succeeding notch. However, by retaining the shutter in the position indicated the shoulder will swing past the numerous notches until the shutter is freed or swung back against the wall of the building, when it will take into an adjacent notch. It will be observed that the shutter may be locked in any of its open or closed positions and held at any angle desired against accidental slamming by the wind. When open, it may be readily closed by pressing against the rear or hinge edge thereof, thus forcing the locking-shoulder 7 out of engagement with its engaging-notch, after which the shutter may be simply swung to.

It will of course be understood that the number of notches may be increased or diminished over those herein shown.

Having described my invention, what I claim is—

1. The herein-described hinge, consisting of a securing-plate, a bracket having a circular edge extending therefrom and provided with a vertical stud, and a hinge-leaf reduced at its rear end to form a shoulder for engaging notches formed in the bracket and terminating above the same in an elongated eye for loosely receiving the pintle, substantially as specified.

2. The combination, with a shutter and a window-frame, of a pintle located upon the window-frame near the upper end of the shutter, a hinge-leaf secured to the shutter and

terminating in a conoid-shaped eye for engaging the pintle, a securing-plate connected to the window-frame near the lower end of the shutter and provided with a semicircular bracket having a notched periphery and a concentric vertical stud extending therefrom, a hinge-leaf secured to the shutter opposite the securing-plate and having its rear end reduced to form the shoulder 7 and above the same terminating in the elongated eye 8, substantially as specified.

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