

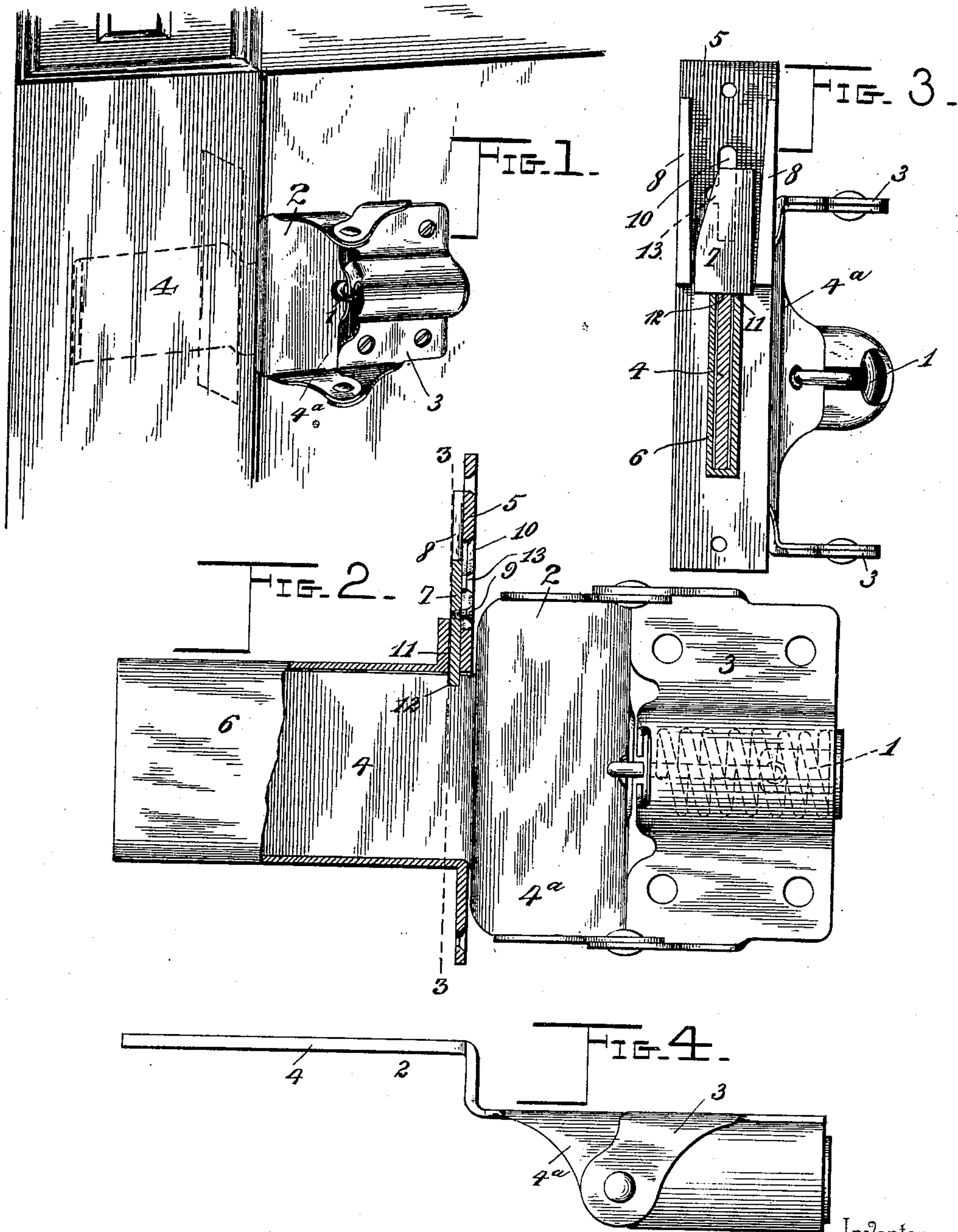
No. 607,156.

Patented July 12, 1898.

E. J. BLEKKINK.
DETACHABLE HINGE.

(Application filed Aug. 17, 1897.)

(No Model.)



Inventor

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Witnesses

John F. Senferviel. By his Attorneys,
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UNITED STATES PATENT OFFICE.

EVERT J. BLEKKINK, OF AMSTERDAM, NEW YORK.

DETACHABLE HINGE.

SPECIFICATION forming part of Letters Patent No. 607,156, dated July 12, 1898.

Application filed August 17, 1897. Serial No. 648,567. (No model.)

To all whom it may concern:

Be it known that I, EVERT J. BLEKKINK, a citizen of the United States, residing at Amsterdam, in the county of Montgomery and State of New York, have invented a new and useful Hinge, of which the following is a specification.

My invention relates to hinges, and has for its object to provide a simple and efficient construction and arrangement of parts whereby a door, shutter, or similar device provided with the improved hinge may be readily hung and dismantled without the removal of screws or other fastening devices such as are ordinarily employed for securing a hinge-leaf to a door or window frame.

The hinge forming the subject-matter of my invention is especially designed for use in connection with screen, storm, and similar doors which are allowed to hang for a season and then are dismantled for a period of time during which they are not required; and the object is to provide means whereby a screen-door may be readily hung or dismantled without manipulating any fastening devices which are detachable from the hinge itself, the construction being such as to enable the hanging of a door to be accomplished without loss of time and preferably by a single operation.

Further objects and advantages of this 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 perspective view of a hinge constructed in accordance with my invention applied in the operative position, contiguous portions of a door frame or jamb being shown. Fig. 2 is a detail front view of the same, showing the socket in section. Fig. 3 is a transverse section of the same to show the means for securing the stationary leaf in its place in the socket. Fig. 4 is a plan view of the hinge proper.

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

The body portion of the hinge illustrated in the drawings may be of any suitable construction, the same being preferably provided with an actuating-spring 1, whereby the pivotally-connected leaves 2 and 3 are yieldingly held

in their normal relative positions. The leaf 2 is provided with a plate 4, which is offset from the plane of the body portion of the leaf 2 to occupy a position within the plane of the door to which the hinge is attached, and a fixed socket 6, having a face-plate 5, is arranged to receive the plate 4. This socket is adapted to be mortised into the jamb or frame of the door or window to arrange its face-plate flush with the surface of the frame, and it is obvious that when the plate or tongue of the hinge is fitted and secured in the socket the members of the hinge will occupy their proper relative positions, and hence the hinge will be adapted to perform its usual function.

The means illustrated in the drawings for securing the plate or tongue 4 of the hinge in the socket 6 consists of a vertically-movable bolt 7, fitted to slide in a guideway 8 on the rear or inner surface of the face-plate contiguous to the upper edge of the socket 6 and provided with a projecting handle or guide-pin 9, which operates in a slot 10 in said face-plate. This locking-bolt is arranged in alinement with a cut-away portion 11 in the upper edge of the socket 6, contiguous to the plane of the face-plate 5, and the plate or tongue 4 is provided with a notch 12, which is adapted to aline with said cut-away portion when the hinge-leaf is in its operative position. The locking-bolt, which is movably held in its operative position, preferably by gravity, engages the notch 12 in the upper edge of the plate or tongue 4, and hence prevents the accidental dismantling of the hinge-leaf. The front end of the guide-pin 9 is exposed through the slot 10, and hence is accessible to provide for manually disengaging the locking-bolt from the notch of the plate or tongue 4, and in order that the locking-bolt may be temporarily held in its inoperative or elevated position I provide the slot 10 with a lateral notch 13, into which the guide-pin may be moved to form a stop.

From the above description it will be seen that the means for securing the hinge-leaf in the socket consists of a bolt which is permanently, although movably, mounted upon the said socket, whereby there are no detachable parts liable to become lost while the hinge is dismantled. Furthermore, the locking devices may be readily manipulated to release

the stationary hinge-leaf when it is desired to dismount the door or shutter to which the improved hinge is connected.

5 An important advantage of the hinge embodying my invention resides in the offset construction of the stationary leaf, whereby the plate or tongue is set back from that surface of the door to which the hinge-leaves are secured. This construction enables me to
10 mortise the socket in the rabbet in which the door fits, and hence provides for the concealment of the socket and plate when the door is in its closed position.

The stationary hinge-leaf is preferably of
15 integral construction, including the body portion 4^a and the blade 4, said body portion carrying the ears by which pivotal connection is made with the movable hinge-leaf, which is attached to the door.

20 Various changes in the form, proportion, and the minor details of construction may be resorted to without departing from the spirit or sacrificing any of the advantages of this invention.

25 Having described my invention, what I claim is—

1. A hinge having a stationary leaf, in com-

bination with a socket adapted to be mortised in a jamb or frame, and provided at its front end with a face-plate having a guide-slot, and
30 a locking-bolt fitted to slide in a guideway on the face-plate and having a terminally-exposed guide-pin extending into said slot, the hinge-leaf being fitted in said socket and having a notch for engagement by the locking-
35 bolt, substantially as specified.

2. A hinge having a stationary leaf, in combination with a socket adapted to be mortised in a jamb or frame, and provided at its front end with a face-plate having a guide-slot laterally offset at an intermediate point, and a
40 locking-bolt fitted to slide in a guideway on the face-plate and having a guide-pin mounted in said slot, and terminally exposed, the hinge-leaf being fitted in said socket and provided
45 with a notch for engagement by said bolt, substantially as specified.

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

E. J. BLEKKINK.

Witnesses:

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