T. Peck,

Hinge.

No. 5,058. Patented Apr. 10, 1847.

Fig. 1

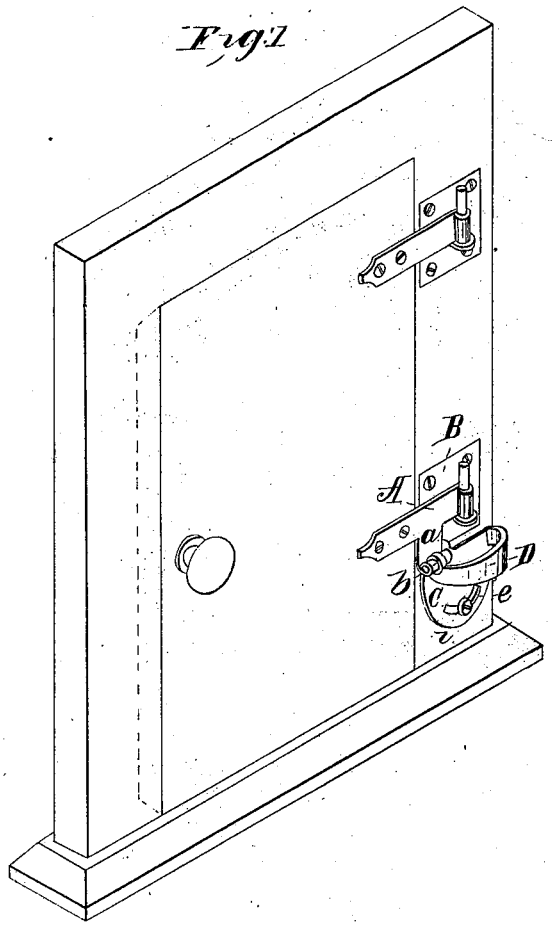
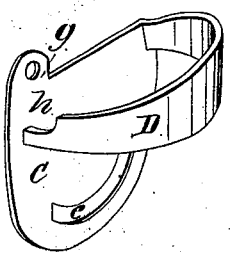


Fig. 2



UNITED STATES PATENT OFFICE.

THOMAS PECK, OF SYRACUSE, NEW YORK.

DEVICE FOR CLOSING DOORS.

Specification of Letters Patent No. 5,058, dated April 10, 1847.

To all whom it may concern:

Be it known that I, THOMAS PECK, of Syracuse, in the county of Onondaga and State of New York, have invented an improvement in the manner of constructing hinges for hanging doors, &c., and combining therewith a curved adjustable inclined plane for closing the same; and I do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1, is a perspective view of a door and casing, having my improved hinge and adjustable inclined plane attached to the same; and Fig. 2, is a perspective view of the curved adjustable inclined plane and plate detached.

To the portion A, of one of the hinges attached to the door, I cast solid with, or secure to the same, an arm *a*, (descending below the hinge;) and place in suitable bearings at its lower end the friction roller *b*. Immediately below the portion B, of the hinge made fast to the casing, I attach the plate C—to which the curved inclined plane D, is connected—in such a position that the friction roller *b*, will traverse upon the curved inclined plane when the door is opened. In opening the door, the roller *b*, passes up the inclined plane (D,) and thereby raises the door; causing its entire weight to rest upon the roller and inclined plane; consequently when the door is left ajar, the roller will descend the inclined plane and close the door. At the lower end of the inclined plane D, there is a convex recess *h*, into which the roller *b*, passes when the door is closed, and thereby retains the door in that position. At its elevated end the inclined plane reaches a level, or inclines slightly in an opposite direction, for the purpose of retaining the door when thrown wide open. The plate C, is secured to the casing by a pivot screw passing through the aperture *g'* in the ear at its upper end, and by the set screw *i* passing through the curved slot *e*, in the lower portion of the plate; by which method of fastening the plate C, the curved inclined plane D, attached to it, can be adjusted to any inclination that may be desired.

The upper end of the door is beveled, as represented by the dotted lines, as is also the casing to correspond with the same; to allow the door to open and close freely when combined with the inclined plane D, arm *a*, and roller *b*. The arm *a*, to which the friction roller *b*, is connected, may be attached directly to the door by means of an elbow, instead of connecting it to a portion of the hinge, as herein set forth, if preferred.

What I claim as my invention and desire to secure by Letters Patent, is—

The combination of the curved adjustable inclined plane D, of the form herein set forth—secured to the casing, with the arm *a*, and roller *b*, attached to the door, substantially in the manner herein set forth; for the purpose of closing the door when left ajar, retaining it when closed, and also retaining the same when thrown wide open, in the manner herein described.

Dated Syracuse, February 27, 1847.

THOMAS PECK.

Witnesses:

R. MOLEENTH,

P. WAY.