

(No Model.)

J. H. PINEO.  
HINGE.

No. 584,096.

Patented June 8, 1897.

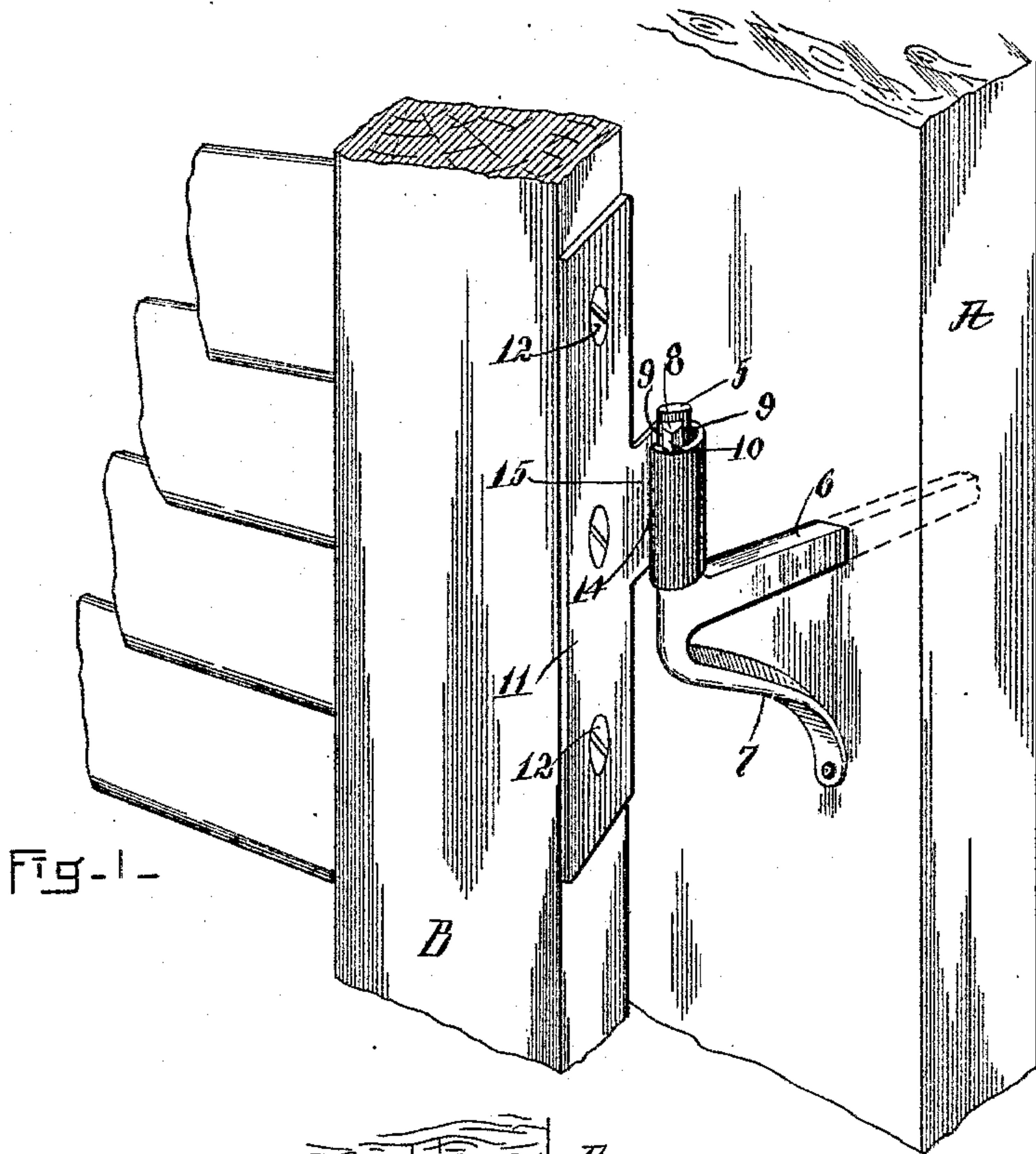


Fig. 1-

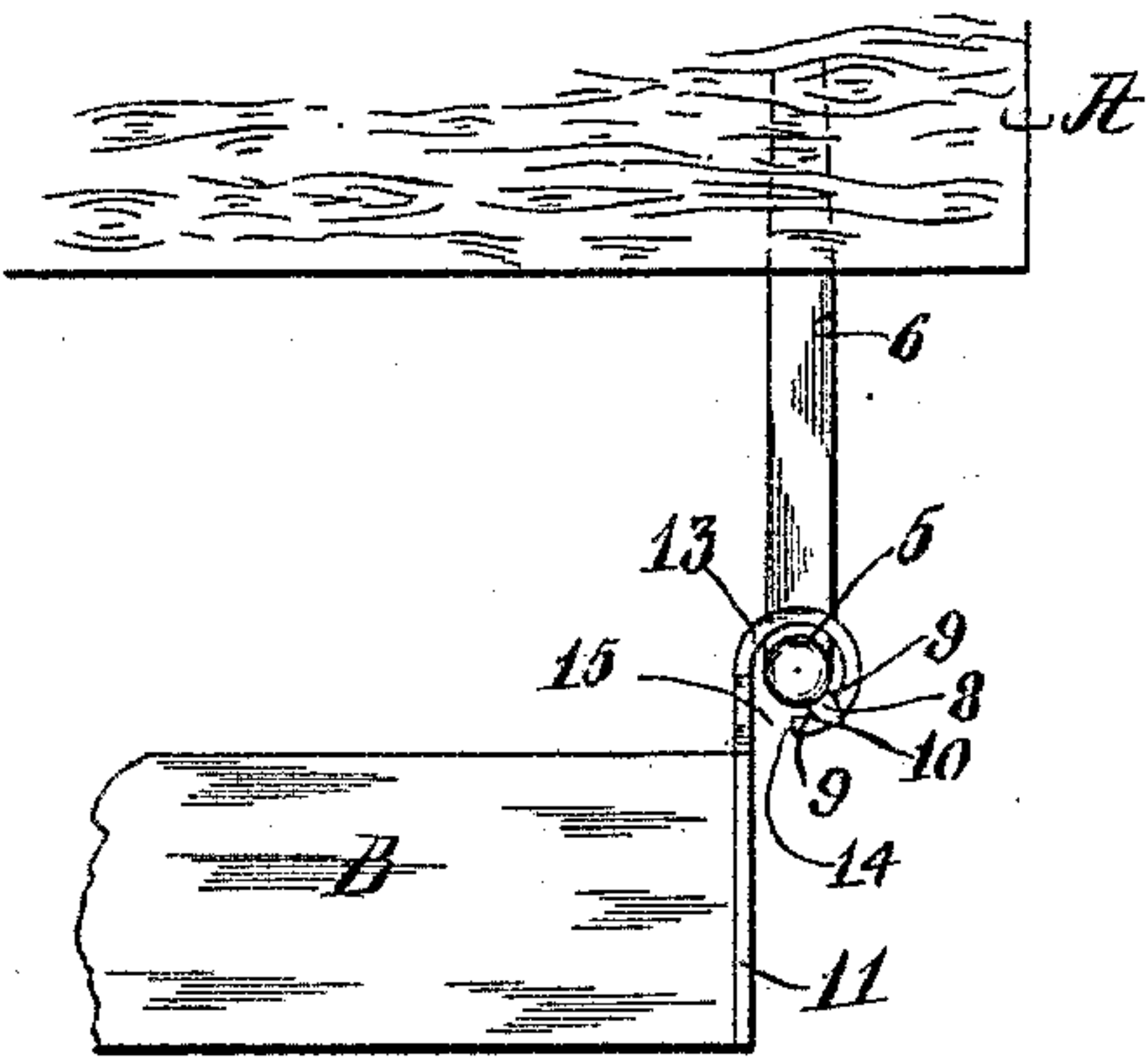


Fig. 2-

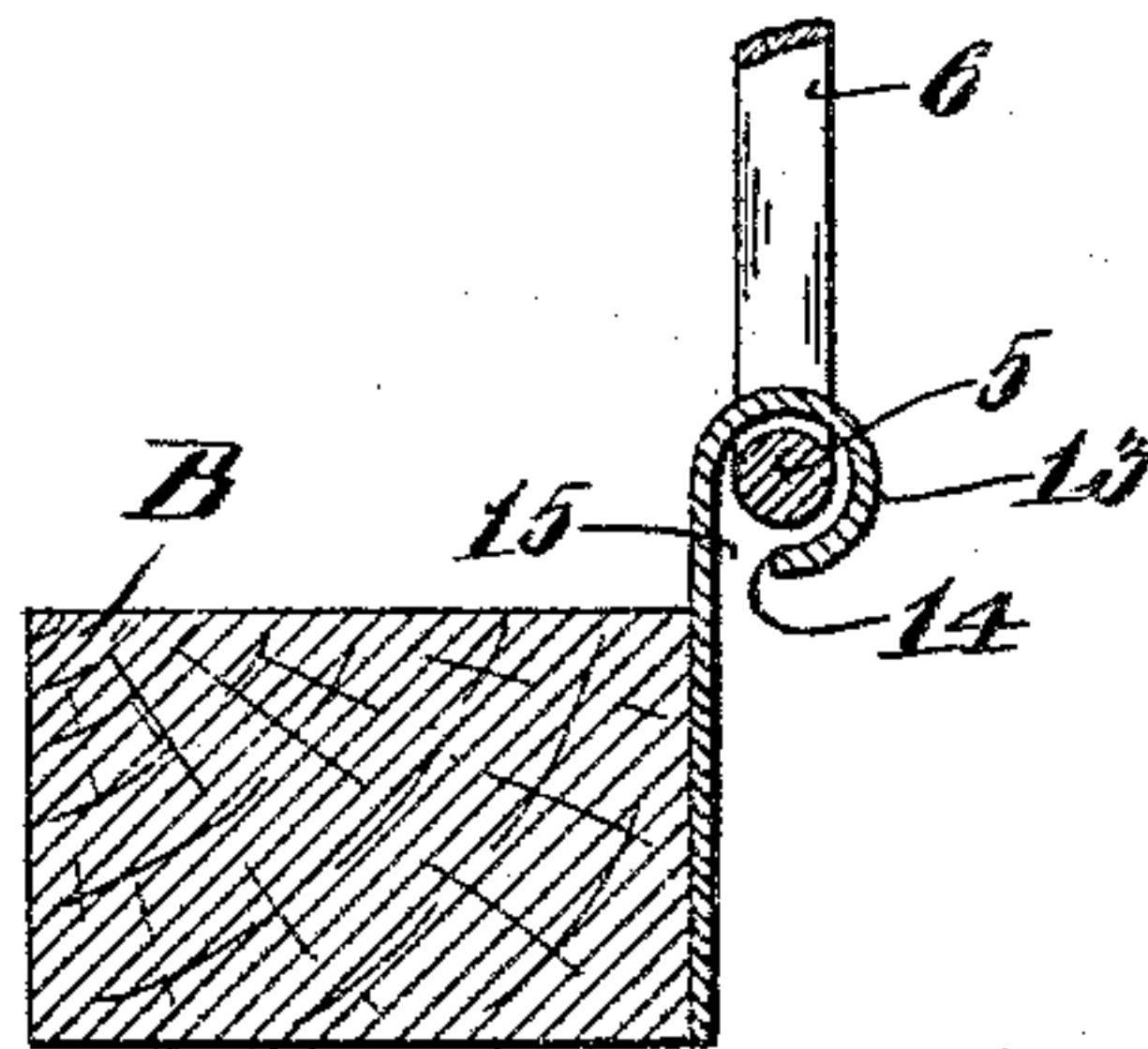


Fig. 3-

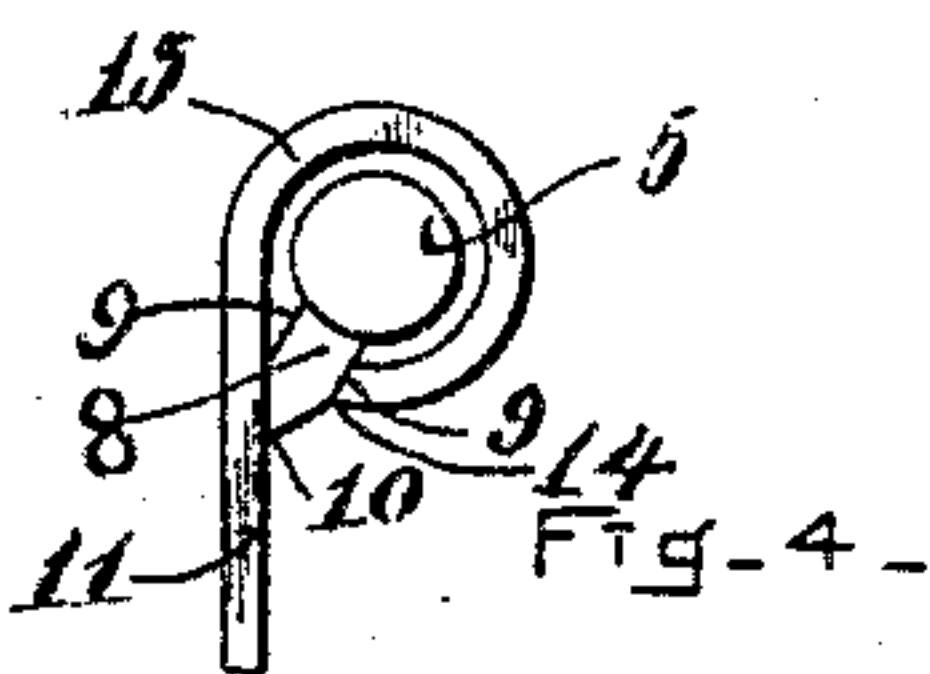


Fig. 4-

WITNESSES -

*Wm. H. Vassar.*  
*E. E. Ziegler.*

INVENTOR -  
*John H. Pineo*  
*by Henry J. Miller*  
*att'y.*



# UNITED STATES PATENT OFFICE.

JOHN H. PINEO, OF BROOKLINE, MASSACHUSETTS.

## HINGE.

SPECIFICATION forming part of Letters Patent No. 584,036, dated June 8, 1897.

Application filed September 9, 1896. Serial No. 605,228. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN H. PINEO, of Brookline, in the county of Norfolk and State of Massachusetts, have invented a certain new and useful Improvement in Shutter-Hinges; and I hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming part of this specification.

This invention has reference to improvements in shutter-hinges, and particularly in those in which the parts of the hinge are locked together.

The object of the invention is to provide a simple and durable hinge having a locking device of novel construction.

The invention consists in the peculiar construction of the locking members, together with such other novel features of construction and combination of parts as shall hereinafter be more fully described, and pointed out in the claim.

Figure 1 represents a perspective view of the improved hinge secured in place and supporting a portion of a shutter. Fig. 2 represents a plan view of portions of the same. Fig. 3 represents a cross-sectional view. Fig. 4 represents a plan view showing the parts, on enlarged scale, in the unlocked positions.

Window-shutters are for convenience of removal generally mounted on hinges which comprise a vertical spindle furnished with a spur which is secured in the window-casing. On the spindle is journaled a sleeve or bearing forming part of a plate or leaf which is secured to the edge of the shutter.

Some window casings or frames are provided with a strip across the upper part of the frame, which extends over the upper ends of the shutters when they are closed, preventing the lifting of the shutters when in this position; but in many window-casings this strip is omitted, and in all structures of casings the shutters are vertically movable from their pivots when in a partially-open position. In new buildings the shutters are often placed on their hinges previous to the completion of the interior work. When boards or other building materials are passed up on the outside of the building, the shutters are often struck and knocked from their hinges, thus

endangering the workmen standing below and often causing the breaking of the shutters. Again, in unfastening the shutters from their holdbacks they are often lifted off their pivots and fall to the ground.

When placing shutters on their pivots, it is necessary that the sleeves on the shutter-plates exactly register with the spindles or pivots. This can be effectually accomplished when the hinges are provided with guiding devices which, while the sleeves are passing over the spindles, prevent the swinging of the shutter.

In carrying my invention into practice I construct a hinge comprising two portions—the spindle or pivot 5, having the securing-spur 6, and the bracing-arm 7. At the upper end of the pivot 5 is the lateral locking-tooth 8, having the squared shoulders 9 9 and the wedge-shaped end 10. The spur 6 is designed to be driven into the frame A until the arm 7 bears against the frame, to which the arm is fastened in the usual manner.

The plate 11 has the usual perforations to receive the screws 12 12, by means of which the plate 11 is secured to the edge of the blind or shutter B. From the edge of the plate 11 extends the member 13, bent to form a bearing for the pivot 5, and which is of a length nearly equal to the distance between the spur 6 and the locking-tooth 8 on the pivot. The edge 14 of the member is, however, not bent inward sufficiently to contact with itself or with the main portion of the plate, but is separated therefrom, leaving an entrance-slot 15, through which the locking-tooth 8 may pass, one shoulder 9 bearing in this passage on the edge 14 of the member 13, while the beveled surface at the opposite side of the tooth bears on the surface of the plate 11. While the locking-tooth is passing through the entrance-slot 15, the shutter is prevented from swinging, thus facilitating the mounting of the shutter, and when the shutter is mounted on the pivots it cannot be moved vertically until the locking-tooth is brought opposite the entrance-slot.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

In a shutter-hinge the combination of a spindle-support, and a spindle 5 provided

with a radial tooth 8 having a quadrangular body 9 and a wedge-shaped end 10, with the shutter-plate 11 having the lateral member 13 provided with an unclosed bearing-sleeve 5 having a longitudinal slot 15 in its periphery adjacent to said plate for the passage of the tooth 8; whereby a guide is obtained from the surface of the shutter-plate for the wedge-shaped end of the tooth 8, substantially as described.

JOHN H. PINEO.

Witnesses:

HENRY J. MILLER,  
THOMAS R. CURTIS.