

H. W. TREFETHEN.

FASTENINGS FOR KNOB-SPINDLES.

No. 180,288.

Patented July 25, 1876.

Fig. 1.

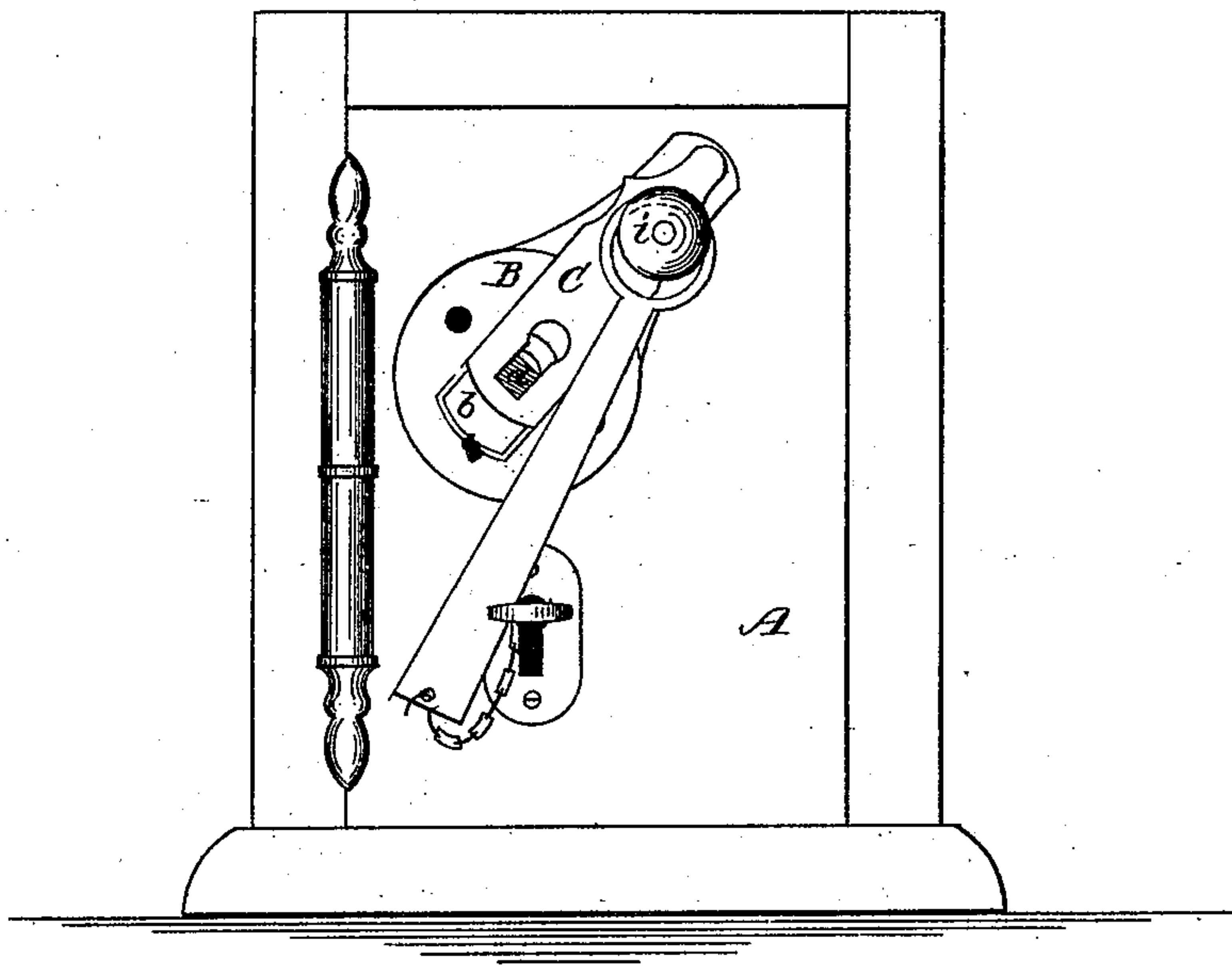


Fig. 2.

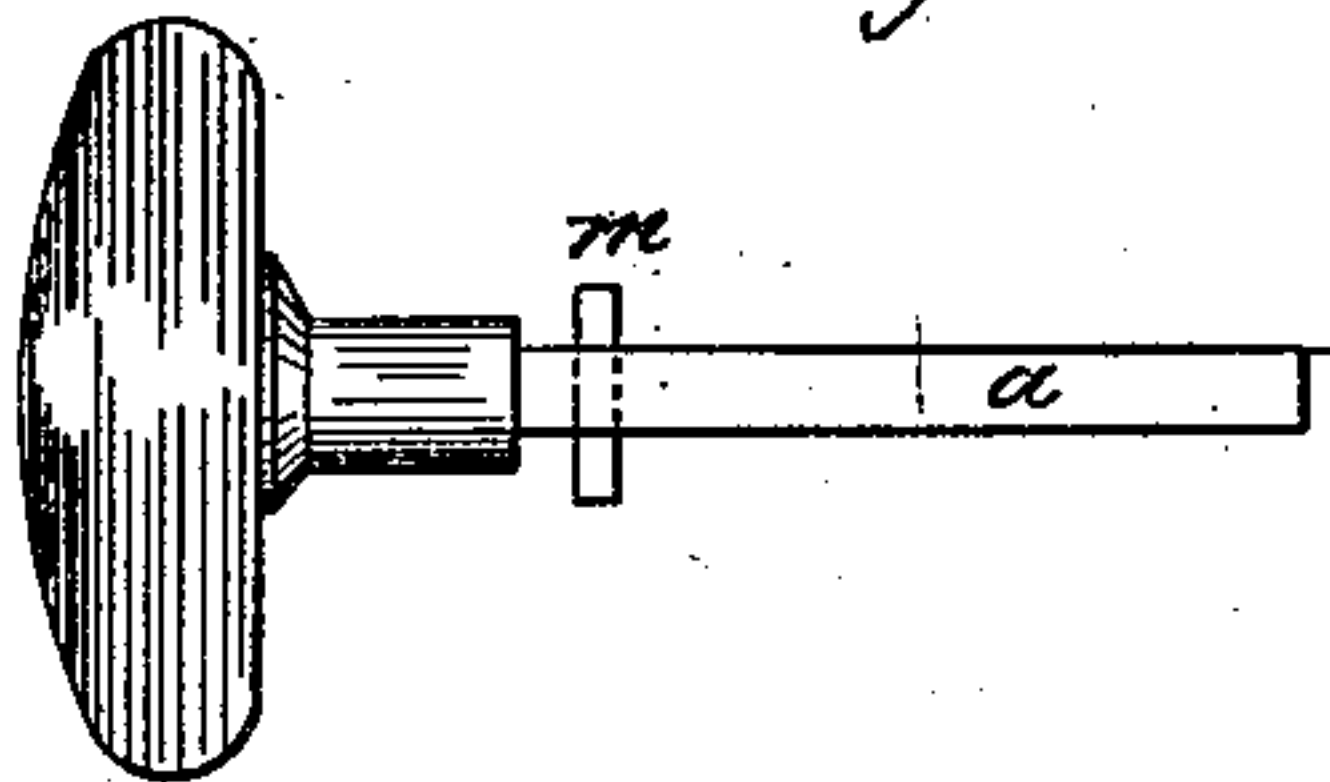


Fig. 3.

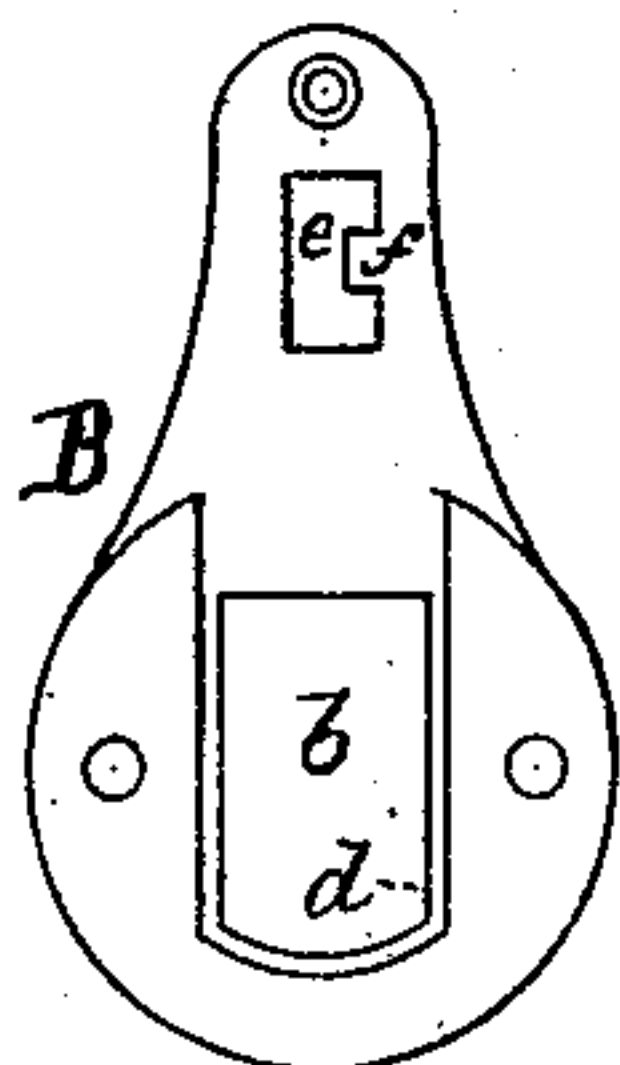


Fig. 4.

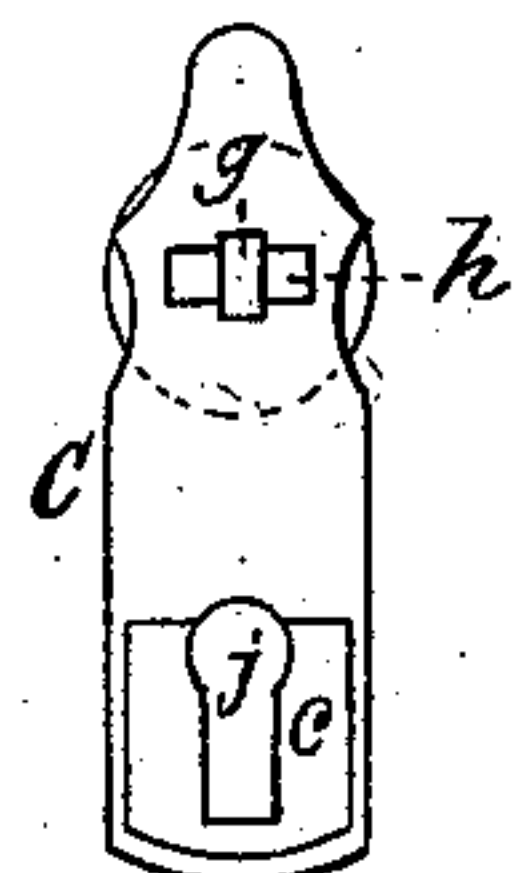
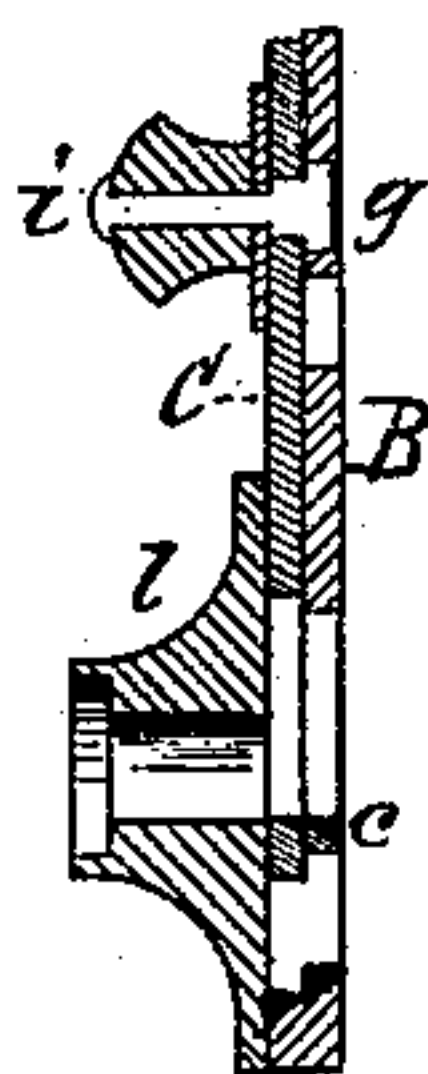


Fig. 5.



WITNESSES

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HENRY W. TREFETHEN, OF KITTERY, MAINE.

IMPROVEMENT IN FASTENINGS FOR KNOB-SPINDLES.

Specification forming part of Letters Patent No. 180,288, dated July 25, 1876; application filed June 2, 1876.

To all whom it may concern:

Be it known that I, HENRY W. TREFETHEN, of Kittery, in the county of York and State of Maine, have invented a new and valuable Improvement in Fastenings for Knob-Spindles and Latches; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawing is a representation of a side elevation of my invention. Fig. 2 is a detached view of the knob and spindle; Fig. 3 is a detached view of the bearing-plate. Fig. 4, an under side plan view of the locking-plate; and Fig. 5, a vertical longitudinal section of the locking-plate, bearing-plate, and rose-head.

The object and purpose of the present invention are to provide a simple and effective means for securely holding the knob-spindle, and prevent the same from being turned, the combination and arrangement of the several parts by which the above results are accomplished being hereinafter described, and subsequently pointed out in the claim.

In the accompanying drawings, A represents a section or portion of a door to which is secured a mortise latch or lock. Connected to the door A is a bearing-plate, B, encircling the knob-spindle *a*. This plate is formed with a recessed opening, *b*, through which the spindle passes, and in which fits and slides a locking-plate, C, said plate having a raised bearing-face, *c*, which rests upon a shoulder or flange, *d*, around the opening *b*. In the smaller end of the plate B is an opening, *e*, partially divided by a projecting lip, *f*, said opening being designed to receive a stop, *g*, which slides transversely within an elongated slot, *h*, and is operated by a suitable knob or handle, *i*.

The plate C has an opening, *j*, partially circular and partially of irregular form, so that when the plate C, by the knob or handle *i*, is forced upward in an inclined direction, the spindle *a* will be in position within the straight portion of the opening,

which constitutes the holding part, preventing the spindle from turning therein as the sides of the opening meet the sides of the spindle.

When the plate C is slid down so that the circular part of the opening encircles the spindle the same may be rotated and rendered operative.

For the purpose of more securely holding the plate C in position and preventing it from sliding down out of place, the knob *i*, after the plate C is in position to lock the spindle, is moved at right angles to the sliding movement of the plate, which brings the stop *g* in the upper section of the slot or opening *e*, the lip *f* preventing the plate C from sliding downward. When it is desired, however, to bring the plate in position so that the spindle may be operated, the knob is moved back, disengaging the stop *g* from the lip *f*, when the plate is moved in position and locked by bringing the stop in the lower portion of the slot or opening *e*.

A rose-head, *l*, through which the knob-spindle *a* passes, is secured over the bearing-plate B by suitable screws, and holds the locking-plate C within the opening *b* of the plate B.

The knob-spindle, as shown more clearly in Fig. 2, is secured in position by means of a pin, *m*, extending transversely through it on the inside of the lock or latch, and thereby is held in place by the knob-flange, as commonly used, the screws of which are tapped into the side of the lock or latch, instead of extending only into the wood, as is commonly the case.

The pin *m* prevents the forcing of the knob-spindle through the lock or latch from the outside by removing the knob and rendering ineffective the functions of the slide C, which secures the knob-spindle in position and prevents the forcing back into the latch or lock shell its bolt or latch, when in position for fastening any object to which it is or may be attached.

Having now fully described the construction and operation of my invention, what I claim as new, and desire to secure by Letters Patent, is—

The rose-head *l*, bearing-plate B, with opening *b*, and opening *e*, with lip *f*, in combination with the locking-plate C, having opening *j*, of the form described, encircling the knob-spindle *a*, and the transverse sliding stop *g*, constructed to operate as and for the purpose specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

HENRY W. TREFETHEN.

Witnesses:

JOSIAH W. LEWIS,
MOSES V. SAFFORD.