

J. W. Trapp.

Shutter Hinge and Knob

N^o 85,772

Patented Jan. 12, 1869.

Fig. 1.

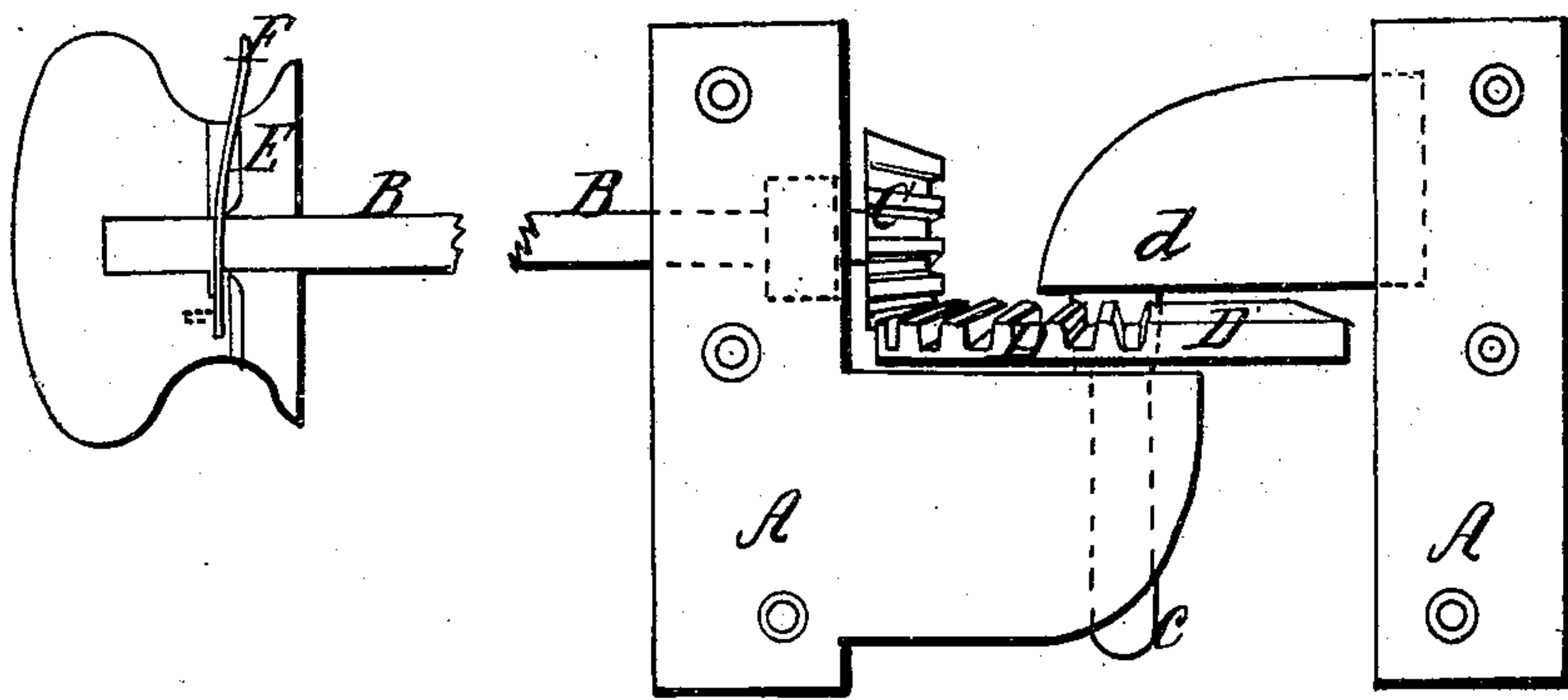


Fig. 2.

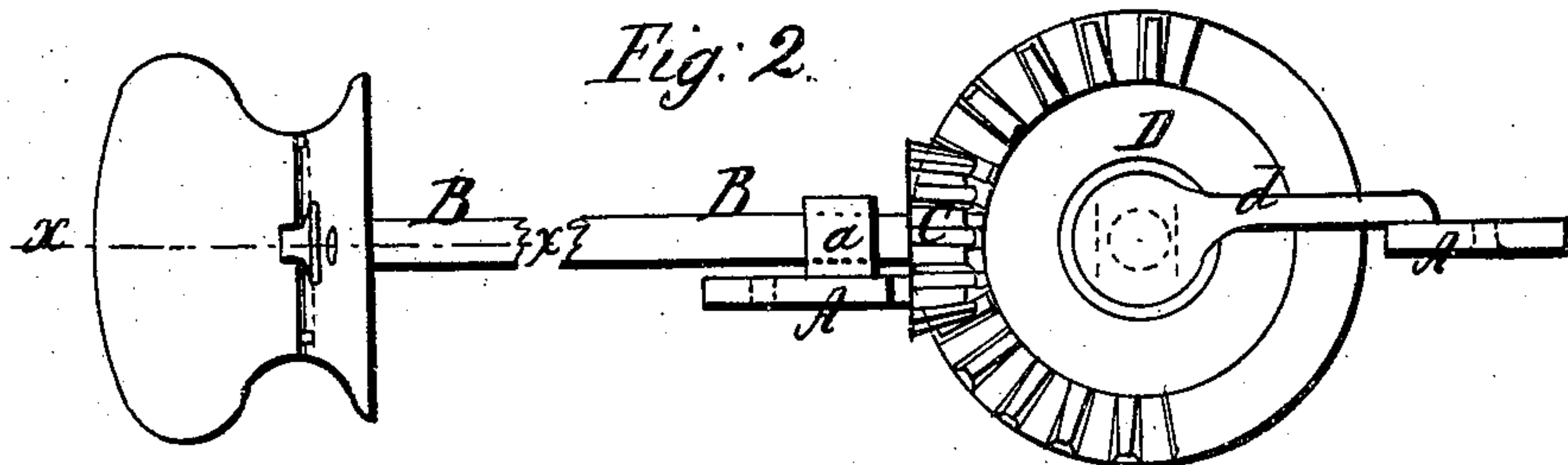


Fig. 3.

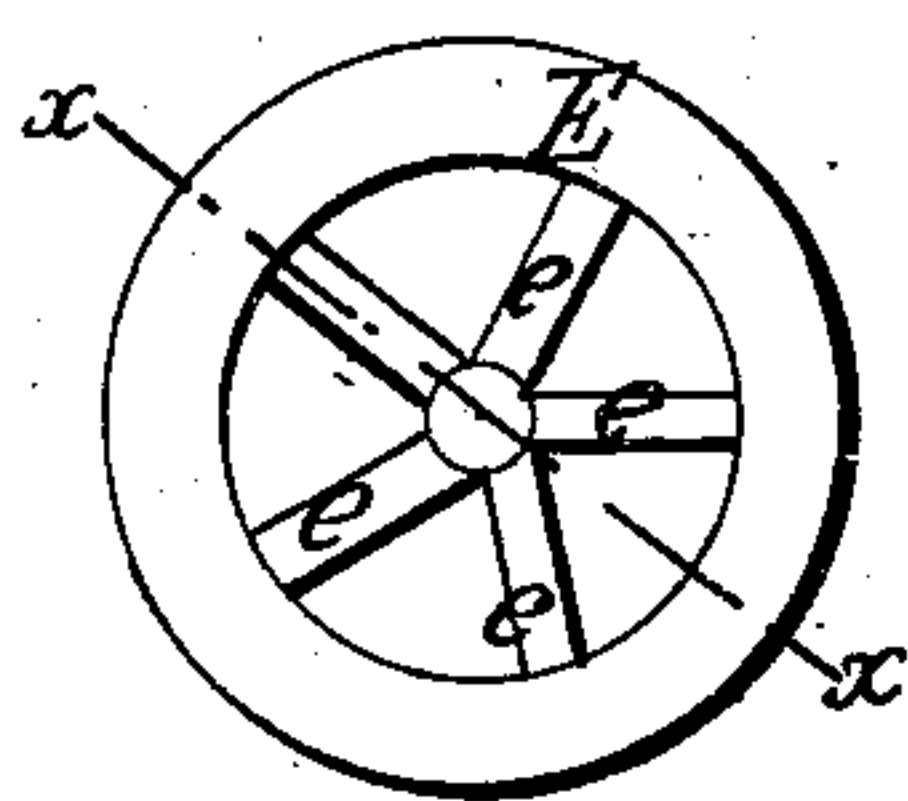


Fig. 4.

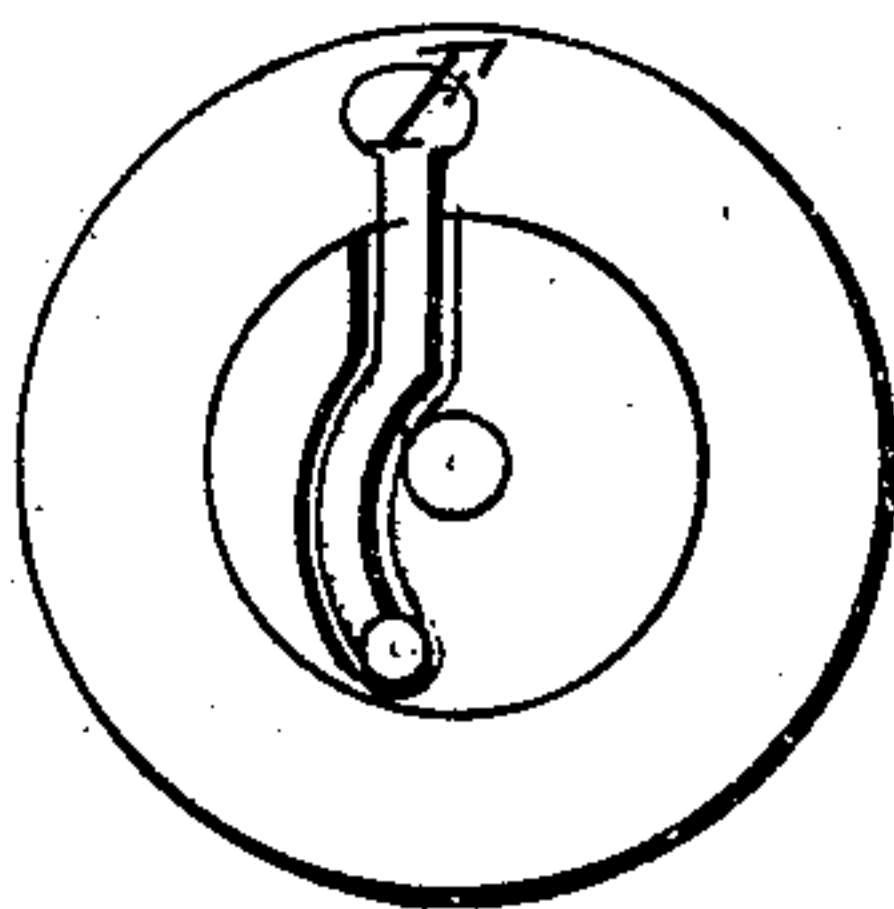


Fig. 5.



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United States Patent Office.

JOHN W. TRIPP, OF GALLIPOLIS, OHIO.

Letters Patent No. 85,772, dated January 12, 1869.

IMPROVEMENT IN SHUTTER-HINGE AND KNOB.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, JOHN W. TRIPP, of Gallipolis, in the county of Gallia, and State of Ohio, have invented a new and improved Shutter-Hinge; 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 accompanying drawings, making a part of this specification, in which—

Figure 1 is a side view of the hinge when open, the knob being shown in section, as indicated by the line *x-x* of fig. 2.

Figure 2 is a top view.

Figure 3 is a view in detail of escutcheon-plate, showing radial grooves.

Figure 4 is a view of knob, showing the spring.

Figure 5 is a section of escutcheon-plate, as indicated by line *x-x* of fig. 3.

Like letters in the figures of the drawings indicate like parts.

My invention relates to the knob or handle for opening and closing the shutter, and consists in the construction of the escutcheon-plate of the knob with a suitable number of radial grooves or recesses, and in the arrangement of a thumb-spring in the knob, so that by pressing the spring back out of the groove, the plate being screwed fast to the frame, and turning the knob, the shutter will be opened, and held by letting the spring slip back into the proper groove.

The advantage of this arrangement is, the person need use but one hand in operating the knob and spring, while in others both hands are required to operate and fasten the knob for the purpose as aforesaid.

To enable any one skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

A represents a left-handed hinge, which will be attached to the window-frame and shutter in the ordinary way.

B is a lever or rod, having its bearing in a box, *a*, on the back of the hinge, and will be arranged to pass through the frame, near the outer side thereof.

On the end of the rod or lever is a pinion, C, meshing with the wheel D.

This wheel is cast separate from the hinge, and rests on the projection *b* thereof, and has a square slot or hole in the centre of it, through which slot or hole and the projection is inserted the pivot *c*, the pivot being made square next to the shoulder of the projection *d*, to fit snugly the square hole of the wheel, which, when operated upon by the pinion through the knob, will cause the blind or shutter to open or close, as may be desired. The shutter is sustained by the shoulders of the pivot, which shoulders rest and turn upon the projection *b*.

E is the escutcheon-plate, and *e* are the radial grooves or recesses, which incline from the centre to the periphery of the plate.

F is the spring, which is let into the knob to about the thickness of the spring, and fastened at the end by a screw.

The escutcheon-plate is placed on the rod or lever, and screwed fast to the facings of the frame. The knob is then slipped on the rod against the plate, with the spring in the groove thereof. It is then properly fastened to the rod. By pressing the spring back out of the groove with the thumb, and turning the knob, the shutter will be opened, and held by the spring being let into the requisite groove.

Having thus fully described my invention,

What I claim therein as new, and desire to secure by Letters Patent, is—

The arrangement of the spring F, in combination with the radial grooves *e* of the escutcheon-plate, substantially in the manner and for the purpose as herein shown and set forth.

As evidence that I claim the foregoing, I have hereunto set my hand, in the presence of two witnesses.

JOHN W. TRIPP.

Witnesses:

H. D. PERRINE,
GILBERT B. TOWLES.