W. VARAH.

Knob-Spindles.

No. 136,795. Patented March 11, 1873.

Fig. 1

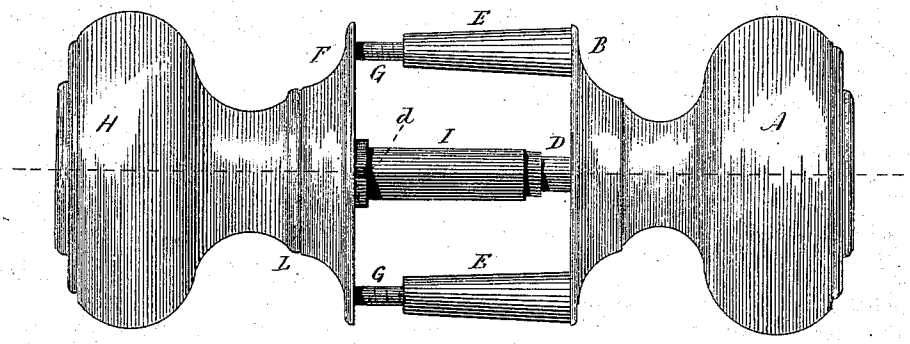


Fig. 2

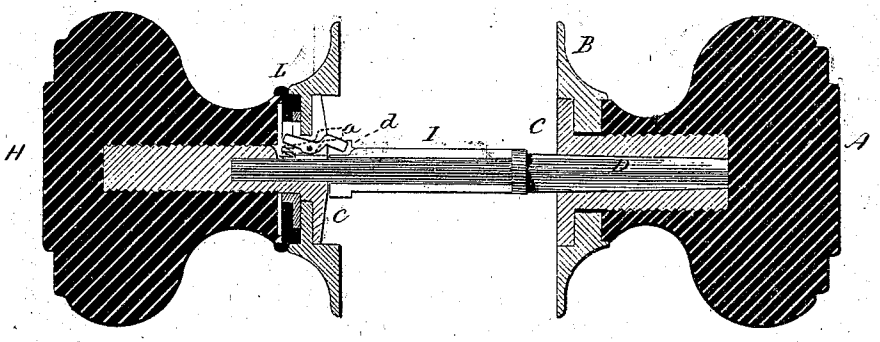
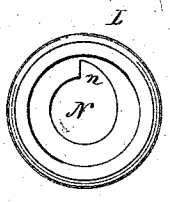


Fig. 3



Witnesses.

J. F. Shumway

A. J. Tibbits

Walter Varah.
Inventor.
By Atty's
John O. Earle

UNITED STATES PATENT OFFICE.

WALTER VARAH, OF NEW HAVEN, CONNECTICUT.

IMPROVEMENT IN KNOB-SPINDLES.

Specification forming part of Letters Patent No. **136,795**, dated March 11, 1873.

To all whom it may concern:

Be it known that I, WALTER VARAH, of New Haven, in the county of New Haven and State of Connecticut, have invented a new Improvement in Door-Knobs; and I do hereby declare the following, when taken in connection with the accompanying drawing and the letters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawing constitutes part of this specification, and represents, in—

Figure 1, a side view; Fig. 2, a longitudinal central section; and in Fig. 3, the locking-collar detached.

This invention relates to an improvement in the attachment of door-knobs to their spindles; the object being, first, to avoid the usual loosening of the rose, and, second, the connection of the knobs to the mechanism of the latch, so that the turning of the knob will in no way affect the latch. The invention consists in the arrangement of a sleeve upon the knob-spindle, which fits the follower of the latch, combined with a mechanism whereby the knob-spindle may be engaged with the said sleeve so that turning the knob will turn the sleeve, or detached from the spindle so that the turning of the knob will have no effect upon the sleeve.

A is one knob, which is attached to its rose B by means of a socket, C, the said socket secured into the knob so that the rose becomes a part of the knob, but yet allows the knob to turn freely independent of the rose, the said socket setting onto the spindle D, so that the turning of the knob will turn the spindle in the usual manner. The rose B is constructed with two studs, E E, which extend into the door, and, by preference, nearly through. The rose F upon the opposite side is secured by screws G, running through the said rose into the studs E, as seen in Fig. 1. The rose F may be attached to its knob H in like manner as described for the other knob. Thus the knobs are secured to the door independent of the spindle. The central portion of the spindle, or that part which passes through the lock, I make round, as seen in Fig. 2, and onto this I fit a sleeve, I, the external form of which is square so as to fit the follower or hub of the latch; and through the head of the socket C of the knob H I arrange a latch, *a*, (see Fig. 2,) the said latch pivoted in the socket, and a notch, *d*, in the sleeve, into which the latch drops so as to engage the knobs and spindle with the sleeve, and so that, when the knobs are turned, the sleeve will be turned at the same time and actuate the mechanism of the latch; but when the latch is raised from the notch *d* in the sleeve, the spindles are disengaged from the sleeve, the spindle turning freely in the sleeve; hence, in this condition, the turning of the knobs has no effect upon the latch.

To operate the latch to connect or disconnect, as described, I arrange a ring or collar, L, between the knob and rose, as shown in solid black, Fig. 2, and detached in Fig. 3. The opening N through this collar is made with a notch, *n*, preferably of cam shape, so that, the collar standing with the notch over the tail of the latch, it will be left in connection with the sleeve, as seen in Fig. 2; but turning the collar, which may be easily done by holding the knob, the tail of the latch *a* is thrown down, its head thrown up, as denoted in Fig. 2, holding the latch disconnected; hence, turning either knob has no effect upon the sleeve I or latch-bolt mechanism.

The collar should be arranged upon that side of the door upon which it is desirable to perform the locking. Thus the latch-bolt itself becomes practically a burglar-proof lock, which cannot by any possibility be operated upon the side opposite that on which the locking is done.

I claim as my invention—

The spindle D, made cylindrical at the center portion, combined with the square or angular sleeve I, latch *d*, and collar L, constructed and operating together substantially as and for the purpose described.

WALTER VARAH.

Witnesses:
J. H. SHUMWAY,
A. J. TIBBITS.