J. G. WIGGINS.

DOOR AND ALARM BELL.

No. 193,903. Patented Aug. 7, 1877.

Fig: 1.

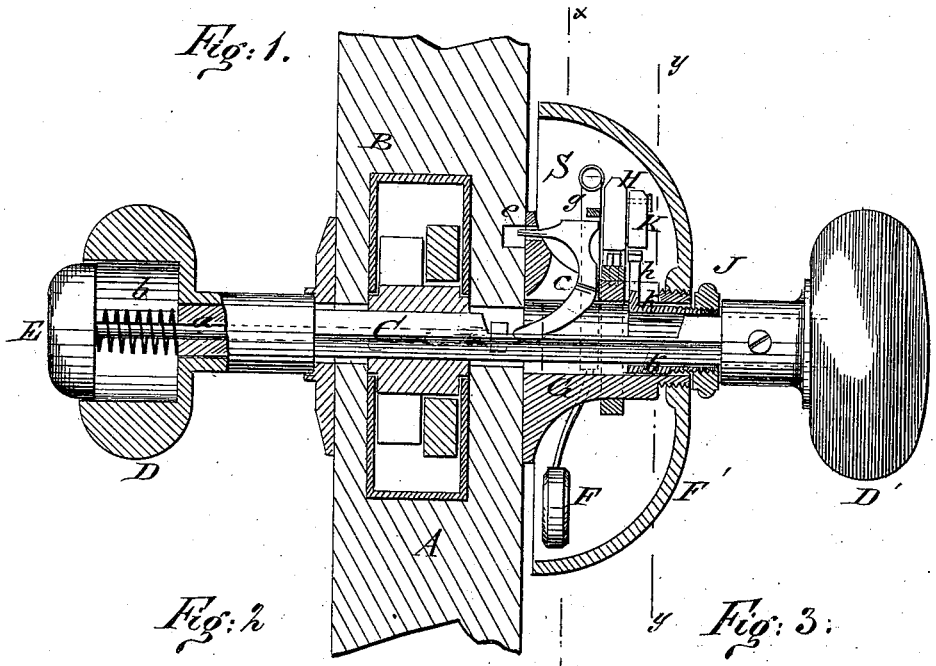
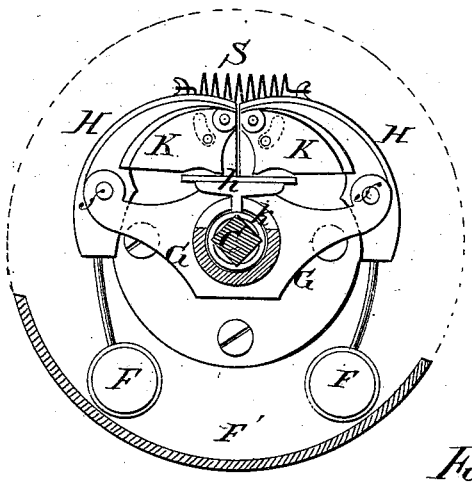



Fig: 2

Fig: 3.



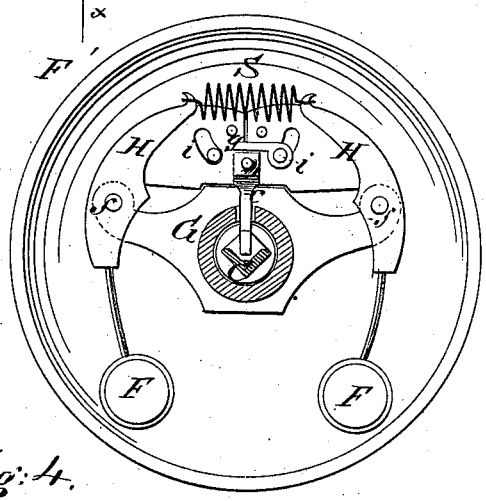
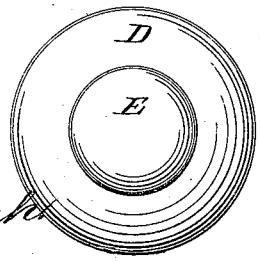




Fig: 4.




WITNESSES:

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# UNITED STATES PATENT OFFICE.

JEFFERSON G. WIGGINS, OF SENECA FALLS, NEW YORK.

## IMPROVEMENT IN DOOR AND ALARM BELLS.

Specification forming part of Letters Patent No. **193,903**, dated August 7, 1877; application filed June 25, 1877.

*To all whom it may concern:*

Be it known that I, JEFFERSON G. WIGGINS, of Seneca Falls, in the county of Seneca and State of New York, have invented a new and Improved Combined Alarm-Bell and Door-Knob, of which the following is a specification:

This invention relates to bell-alarms for doors; and the nature of my invention consists in combining, with the knob and spindle of a door-latch, an alarm-bell, which may or may not be sounded by turning the knob to open the door, or it may be sounded from the outside of the door without turning the knob, as will be understood from the following description.

In the annexed drawings, Figure 1 is a vertical section taken centrally through the alarm mechanism and door-latch applied to a door. Figs. 2, 3, and 4 are details.

Similar letters of reference indicate corresponding parts.

The letter A designates a section of a door, and B the case of a door-latch of well-known construction, which is operated by a spindle, C, bearing two knobs, D D′.

Part of the spindle C is tubular, and receives in it a rod, *a*, which has secured to its outer end a push-button, E, which is free to play in a recess formed in the outside knob D, and is held in the position shown in Fig. 1 by a helical spring, *b*. The inner end of this rod *b* terminates in an enlargement which is in close relation to a curved tripping-dog, *c*, so that by pressing in the push-button E this dog will be moved about a fulcrum, *e*, and cause one of two hammers F to strike a bell, F′, and sound an alarm. A portion of the spindle C is cut away to allow the free end of the dog *c* to play freely.

G designates a tubular bracket, which is rigidly secured to the inside of the door, and which receives freely through it the spindle C. This bracket has pivoted to it at *f f* two segment-shaped blocks, H H, which have the hammer-rods fixed to them, and which are held together by means of a spring, S, fixed on top of them.

One of the hammer-blocks H has a short arm, *g*, extending from its rear side, which is struck by the tripping-dog *c*, and the said block vibrated, causing a hammer to strike the bell.

If it is desired to sound an alarm by turning either one of the knobs D D′ the following devices are employed: The reduced cylindrical portion of the bracket G is slotted transversely and longitudinally, and receives a tripping T-head, *h*, which is secured to a screw-threaded tube, *k*, that is endwise adjustable in the end of the bracket by means of a milled nut, J. The tube *k* is applied on the spindle C, so as to turn with it, and thus allow the T-head *h* to be oscillated.

K K are two segments, which are pivoted to the blocks H H, and provided with stop-pins *i i*, that play in curved slots in these blocks. These segments are acted on by the T-head *h* when it is oscillated, each segment receding to allow the dog to assume the position shown in Fig. 2.

It will be observed that when either knob is turned to the right or left, the T-head *h*, acting on the lower edge of a segment, K, will cause an alarm to be sounded.

If it is not desired to sound an alarm by turning the knobs D D′, the T-head *h* is adjusted out of reach of the segment K K by turning the milled nut.

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

1. In combination with alarm mechanism, the button-head rod *b*, applied in the spindle C, the dog *c*, and one or two segments H, bearing hammers, substantially as described.

2. Dog *c*, applied to the latch-spindle C, and pivoted to the bracket G, in combination with alarm mechanism, substantially in the manner described.

3. Pivoted segments K K, combined with segments H H, spring S, and adjustable T-head *h*, substantially as described.

4. The T-head *h*, formed on an endwise adjustable tube, *k*, in combination with slotted bracket G, spindle C, and adjusting-nut J, substantially in the manner and for the purpose described.

JEFFERSON G. WIGGINS.

Witnesses:
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