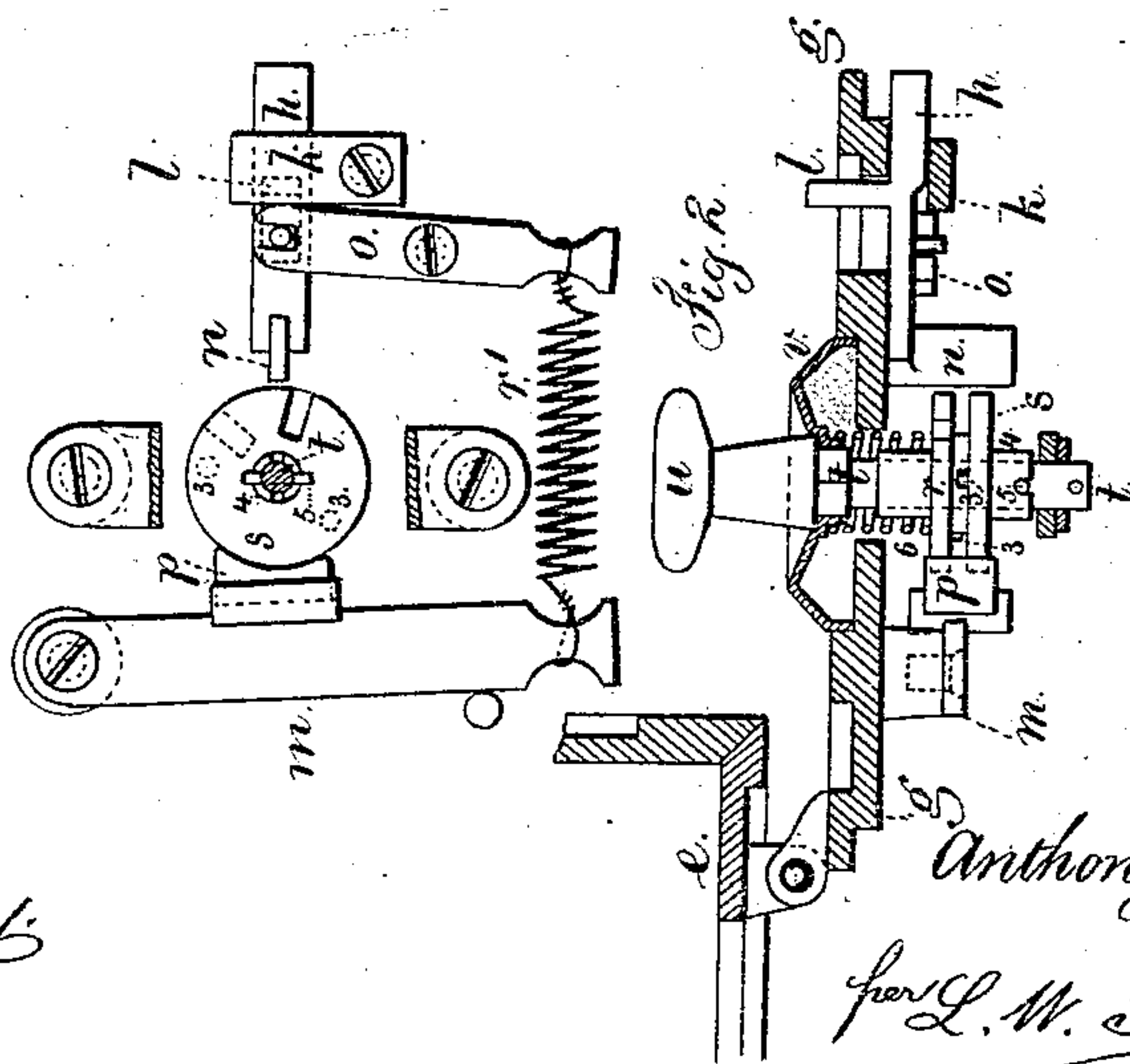
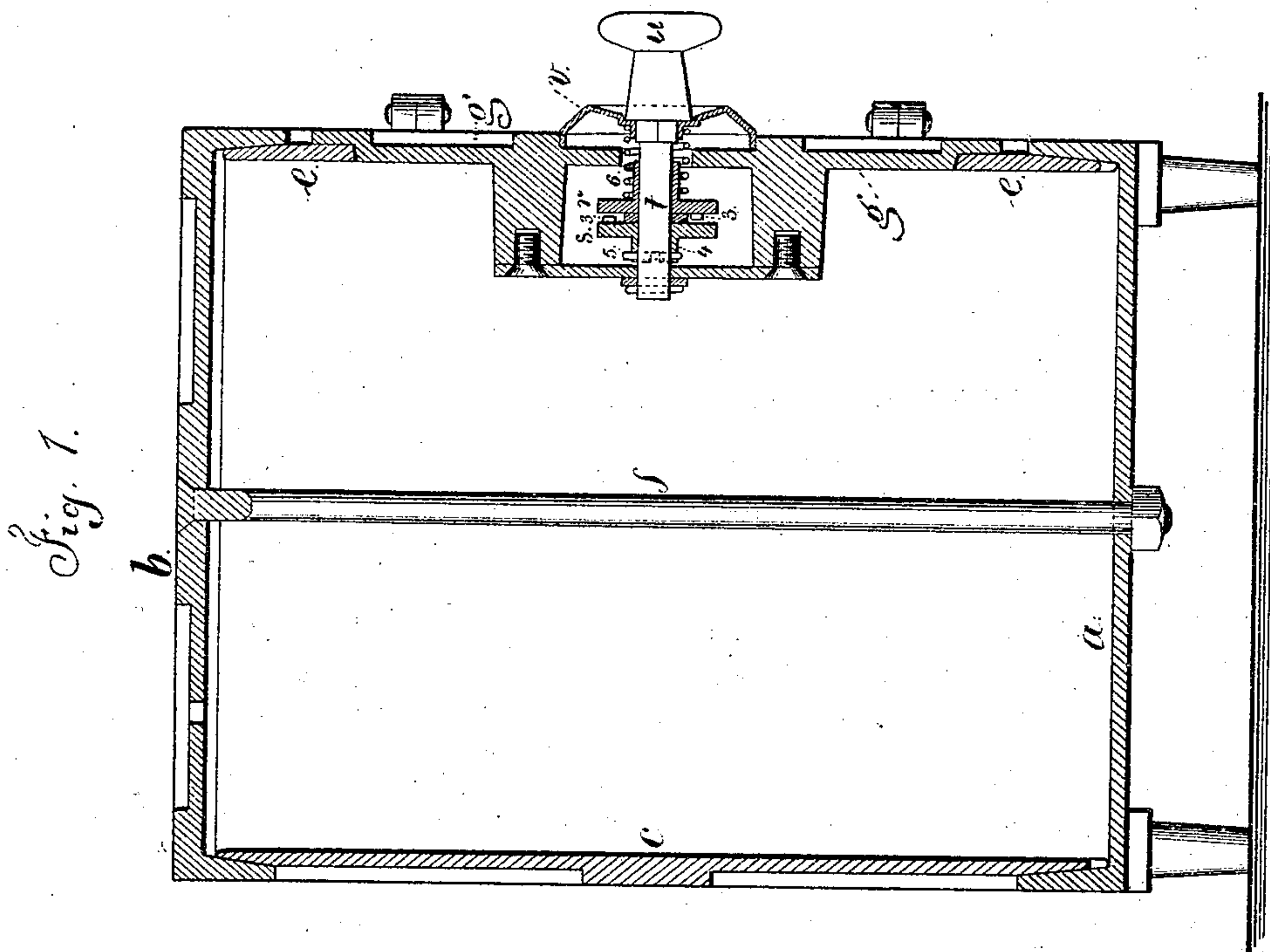


Combination Locks.

No. 153,501.

Patented July 28, 1874.



Witnesses,

Chas. H. Smith
Geo. C. Pinckney.

Inventor

Anthony M. Smith

For L. W. Ferrell

attij

UNITED STATES PATENT OFFICE.

ANTHONY M. SMITH, OF BROOKLYN, NEW YORK.

IMPROVEMENT IN COMBINATION-LOCKS.

Specification forming part of Letters Patent No. **153,501**, dated July 28, 1874; application filed March 14, 1874.

To all whom it may concern:

Be it known that I, ANTHONY M. SMITH, of Brooklyn, in the county of Kings and State of New York, have invented an Improvement in Toy Safes, of which the following is a specification:

This toy safe is intended for a money-box for children and others, and the improvement relates to the means for fastening the door of the safe.

Heretofore safe-locks have been made of a bolt and circular tumblers having notches, and set by a handle and dial, and the bolt has been withdrawn by turning a handle.

In my toy safe there are circular notched tumblers, combined with a bolt that has a thumb-piece projecting through a slot in the door, and there is a spring that applies friction to the tumblers to hold them in place, and said spring serves also to project the bolt. This toy-safe lock is reliable for the usual purposes of a money-box or toy bank, and is cheap and simple, but is wholly unavailable as a bank or vault lock, whether of a large or small size, because the bolt itself is accessible.

In the drawing, Figure 1 is a vertical section of the toy safe through the center of the tumblers. Fig. 2 is a sectional plan of the lock and door, and Fig. 3 represents the parts of the lock separately.

The bottom *a* and top *b* of the safe receive within their flanged edges the side plates, the back plate *c*, and the door-frame *e*, and the screw-bolt *f* connects these parts firmly together. Upon the door *g* is the bolt *h*, sliding through the guide *k*, and provided with a thumb-piece, *l*, that passes through the slot in the door *g*, and projects sufficiently to al-

low of the same being used in drawing the bolt back. The fence *n* at the inner end of the bolt *h* is contiguous to the circular tumblers *r* and *s*, and prevents said bolt being withdrawn except when the notches of the tumblers are in position for receiving such fence. The lever *m* and brake *p* apply friction to the tumblers, and the lever *o* serves to project the bolt, both *o* and *m* being operated upon by the spring *r'*. The tumblers *r* and *s* are upon a stem, *t*, having a knob, *u*, and dial *v* outside the door. Upon the tumblers *r* and *s* are the usual interlocking studs 3, to cause one to move the other; but upon the tumbler *s* is a notched hub, 4, and a pin, 5, through the arbor or stem *t*, enters these notches. A spring, 6, serves to press the tumblers toward the pin 5. By this arrangement the tumblers can be set around a quarter of a revolution to change the permutation by simply pressing the tumblers away from the pin 5, thus insuring a sufficient safety to the contents of the safe, and also giving to children an amusing and useful toy.

I claim as my invention—

1. The notched hub 4 on the tumbler *s*, and the pin 5 upon the shaft *t*, in combination with the spring 6 and dial *v*, substantially as set forth.

2. The lever *m* and brake *p* for the circular tumblers *r* and *s*, and the lever *o* for the spring-bolt *h*, operated by one spring, *r'*, as set forth.

Signed by me this 11th day of March, A. D. 1874.

A. M. SMITH.

Witnesses:

GEO. T. PINCKNEY,
CHAS. H. SMITH.