

T. P. COIN.  
Sash-Fasteners.

No. 140,994.

Patented July 22, 1873.

Fig 4

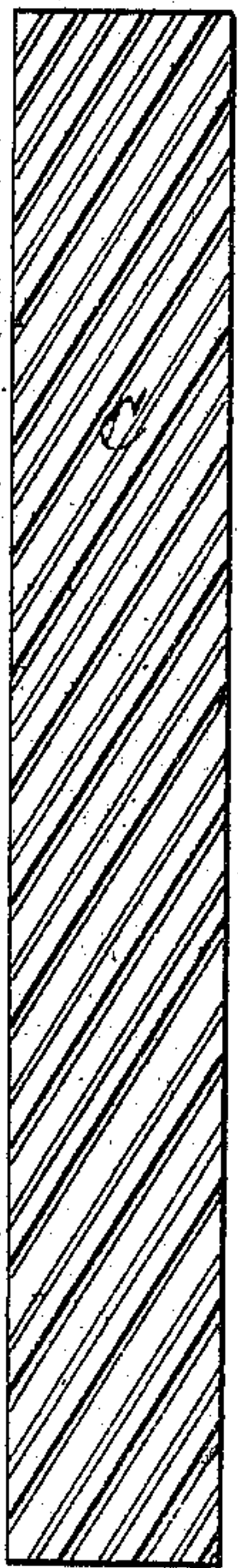


Fig 1

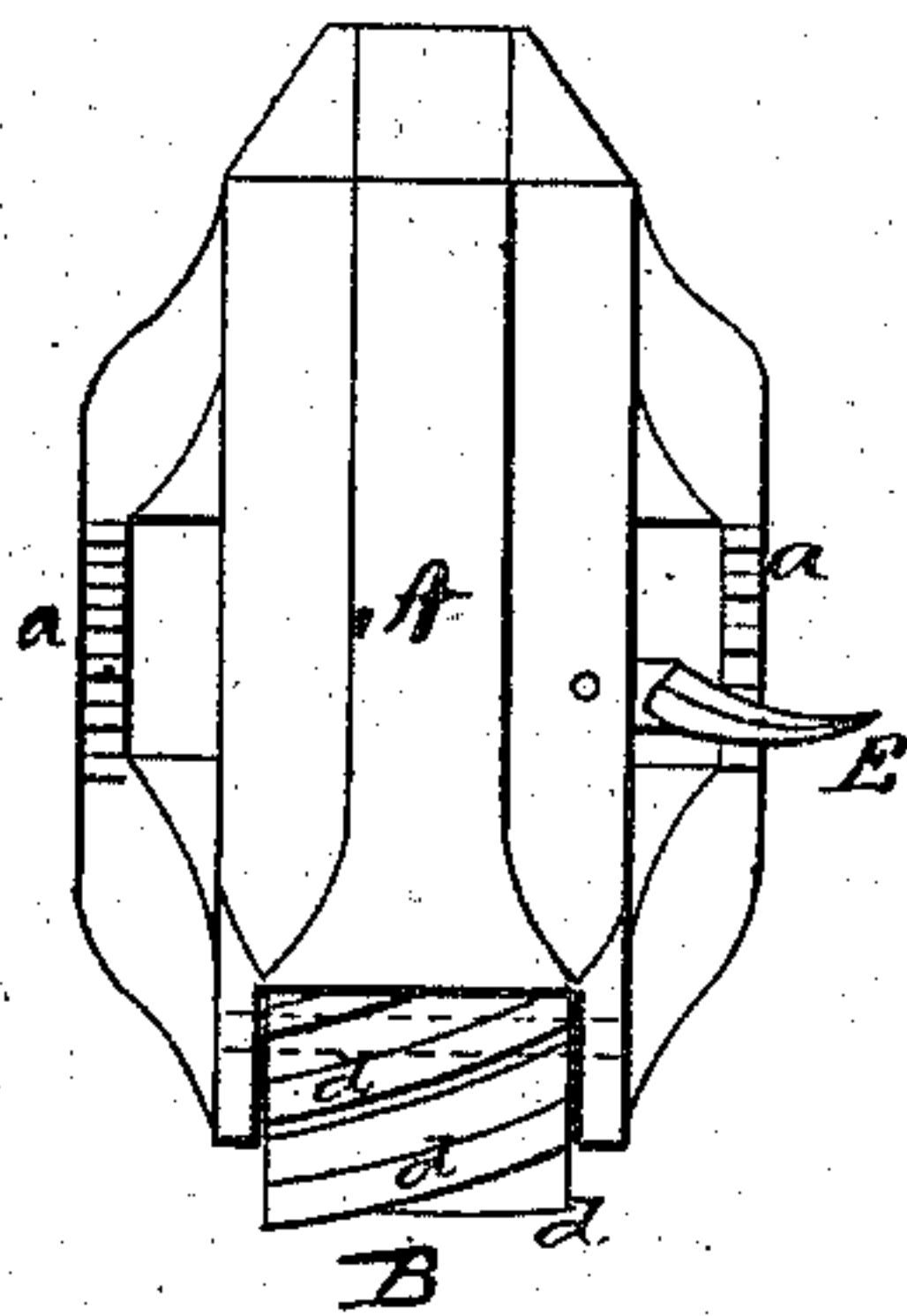


Fig 2

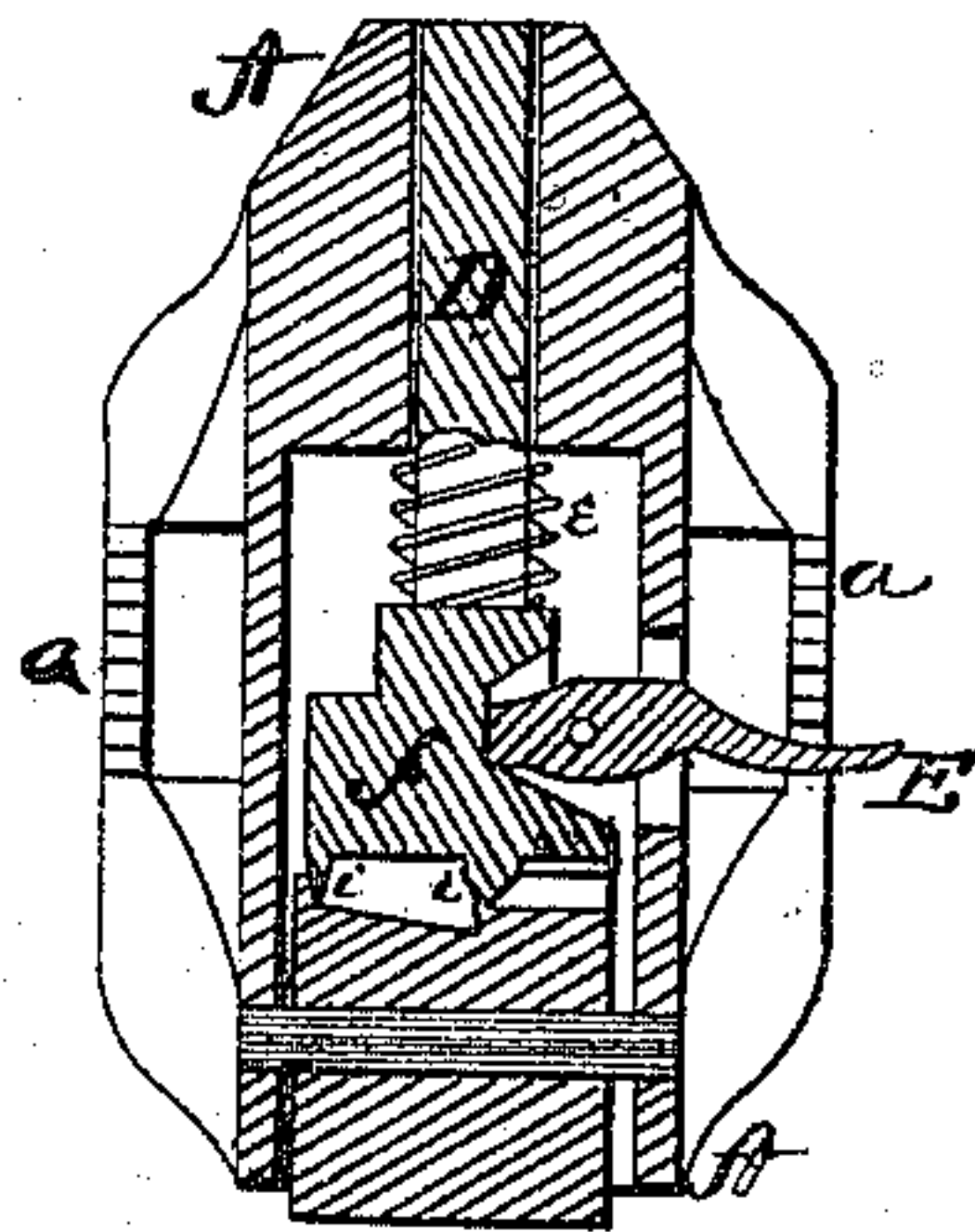


Fig 3

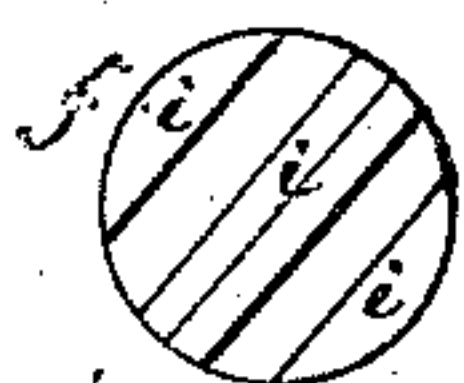
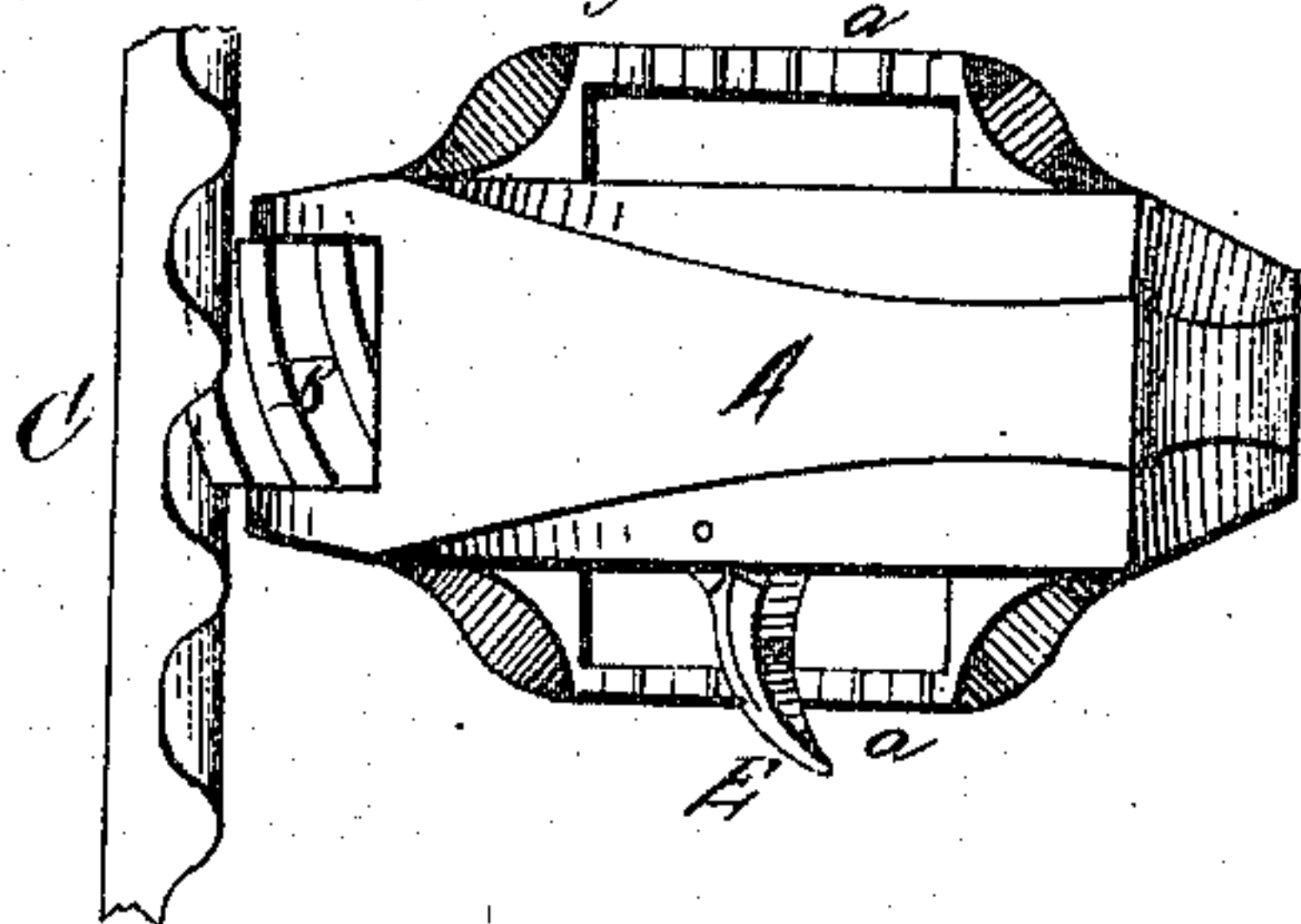
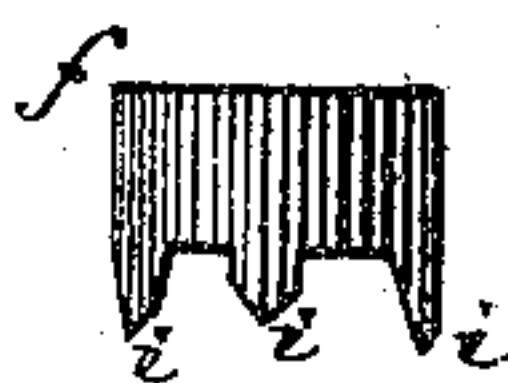


Fig 5



Witness:  
Frank L. Curand  
C. L. Evert.

Inventor.  
T. P. Coin.  
per  
H. A. Mason  
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# UNITED STATES PATENT OFFICE.

THOMAS P. COIN, OF BOONESBOROUGH, IOWA.

## IMPROVEMENT IN SASH-FASTENERS.

Specification forming part of Letters Patent No. **140,994**, dated July 22, 1873; application filed November 21, 1872.

*To all whom it may concern:*

Be it known that I, THOMAS P. COIN, of Boonesborough, in the county of Boone and in the State of Iowa, have invented certain new and useful Improvements in Car and Common Window Catches, Sliding-Door Locks, Safety-Locks for Elevators, &c.; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings and to the letters of reference marked thereon making a part of this specification.

The nature of my invention relates to the construction and arrangement of a lock for car and other windows, sliding doors, elevators, and other places, where the same may be used; and it consists in the employment of a diagonally-cogged strip attached to the window-frame, and a box, provided with a roller having diagonal cog-teeth, a bolt, spring, and lever, so arranged that the teeth of the roller will act in connection with the teeth of the cogged strip.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a front view, and Fig. 2 a longitudinal section, of my lock. Fig. 3 shows the end of the locking-bolt; and Fig. 4 is a rack-bar, in which the locking device operates. Fig. 5 represents a plan view of the box and roller, and an edge view of the strip.

A represents the lock-box in which the working-parts of my lock are contained, and which is provided with slotted flanges *a a* for attachment and adjustment at the place where it is intended to use it. One end of the box A is open, and in the same is pivoted a roller, B, which projects beyond the end of the box, and is, around its circumference, provided with diagonal or curved cogs *d d*. This wheel works in a cogged strip, C, having its cogs running diagonally, as shown in Fig. 4, which strip is to be attached to the frame of the window.

Within the box A is a sliding bolt, D, operated, by means of a spiral spring, *e*, against the inner side of the wheel or roller B. The end of the bolt D, which bears against this roller, is provided with a round head, *f*, upon which are three projecting teeth or cogs, *i i*, to mesh into the cogs of the roller, and lock the same so that it cannot turn on its axle. The bolt D is operated by a lever, E, passing through a slot in the side of the box, and pivoted to the same, as shown in Fig. 2, so that, by pressing upon the projecting end of said lever, the bolt will be withdrawn from the roller, and this allowed to move up and down on the strip C.

The combination of the diagonally-toothed roller and the diagonally-toothed strip allows the parts to more freely move, one on the other, as the action of one tooth on the other is not direct, and hence the parts move in a sliding manner, and there is not as great a liability of the teeth on either the roller or the strip becoming broken.

This device is applicable to car and other windows, sliding doors, elevators, &c.

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

1. The combination, with the diagonally-curved roller B, of the bolt D with cogged or toothed head *f*, spring *e*, and lever E, all substantially as and for the purposes herein set forth.

2. The combination of the casing A, diagonally-cogged roller B, diagonally-cogged strip C, spring-bolt D with cogged or toothed head *f*, and the lever E, all constructed and arranged substantially as and for the purposes herein set forth.

In testimony that we claim the foregoing we have hereunto set our hands this 28th day of October, 1872.

T. P. COIN.

Witnesses:

J. S. PAINTER,  
ED. STEWART,