

L. L. Woolley,

Lock.

N^o 78,038.

Patented May 19, 1868.

Fig: 1.

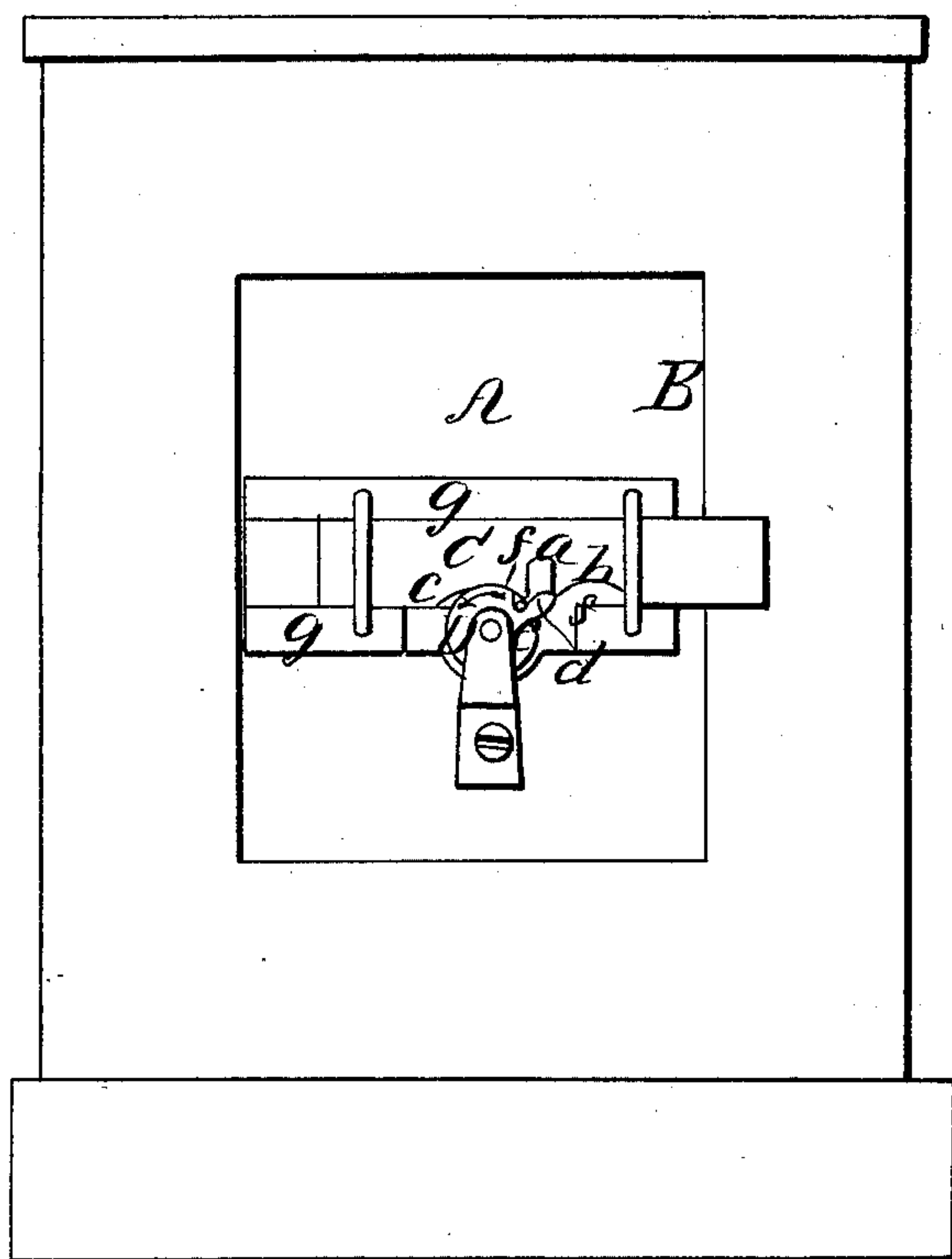
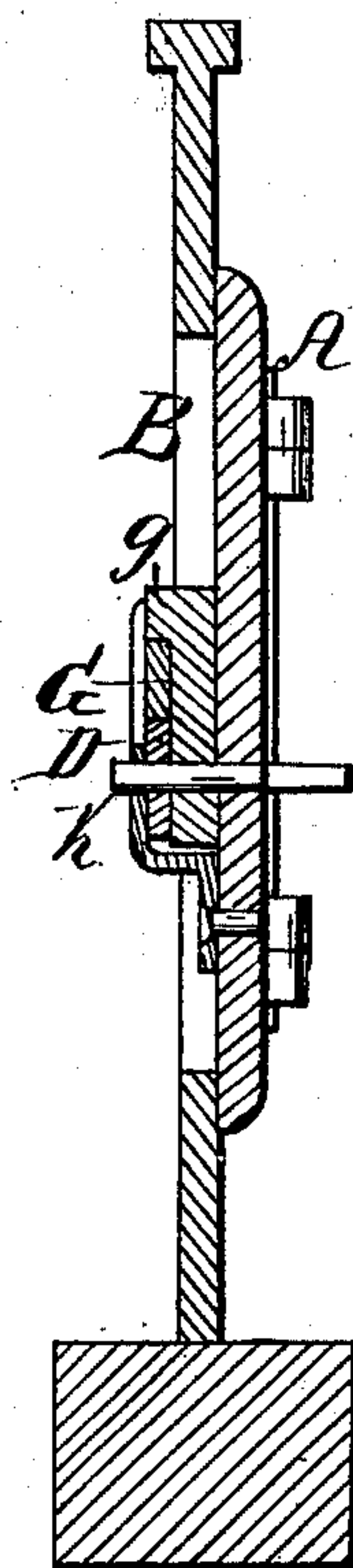


Fig: 2.



Witnesses;
S. N. R. P. W.
J. P. Snow

Inventor;
Lucius L. Woolley
By his attorney
R. W. Eddy

United States Patent Office.

LUCIUS LEANDER WOOLLEY, OF MEDFORD, MASSACHUSETTS.

Letters Patent No. 78,038, dated May 19, 1868.

IMPROVEMENT IN DOOR-LOCKS.

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

TO ALL PERSONS TO WHOM THESE PRESENTS MAY COME:

Be it known that I, LUCIUS LEANDER WOOLLEY, of Medford, in the county of Middlesex, and State of Massachusetts, have invented an Improved Lock for Stove or other Doors; and I do hereby declare the same to be fully described in the following specification, and represented in the accompanying drawings, of which—

Figure 1 is a rear elevation, and

Figure 2 a vertical and transverse section of it as applied to a stove-door.

In such drawings, A denotes the stove-door, B the door-opening plate, and C the bolt of the lock. The said bolt C is placed between parallel guides *g g*, and so as to be capable of being slid endwise, backward or forward. It operates with and is operated by a toothed tumbler, D, mounted on a key-shaft or arbor, *h*.

The bolt has a toothed recess, *a*, and two stop-recesses *e e*, each of the latter being in the form of an arc of a circle, having a radius equal to that of the segment of the tumbler.

The tumbler is a segment of a circle, provided with a tooth, *d*, extended from the middle of its chord, and being flanked by two recesses *e e* formed within the segment. The tooth, in shape, is like that of a spur-gear. When the bolt is shot, the segment is within the recess *c*, and will hold the bolt in position. By revolving the tumbler in the direction of the arrow thereon, the tooth *d* will enter the notch *a*, the segment will leave the notch *c*, the bolt will be shot back, and the tumbler will enter the notch *b*, and while in such notch, it will keep the bolt from being thrown forward.

This lock is particularly designed for the doors of stoves used in railway-carriages, and to prevent such doors from becoming accidentally unlocked, especially should the carriage be overturned or thrown off the track.

While the tumbler is being turned, by a key applied to its arbor, the angular parts *ff* of the bolt, will pass into the notches *e e*, so as to allow the tooth to act in the notch of the bolt, and the segmental part of the tumbler to pass out of one stop-notch and into the other.

What I claim as my invention, is—

The combination and arrangement of the tooth-notch *a*, and the arcal stop-notches *b c*, of the bolt C, with the segmental tumbler D, provided with the tooth *d*, and the two notches *e e*, arranged as specified.

LUCIUS LEANDER WOOLLEY.

Witnesses:

R. H. EDDY,

SAMUEL N. PIPER.