

(No Model.)

J. C. CRAIG.  
COMBINED LATCH AND LOCK.

No. 387,401.

Patented Aug. 7, 1888.

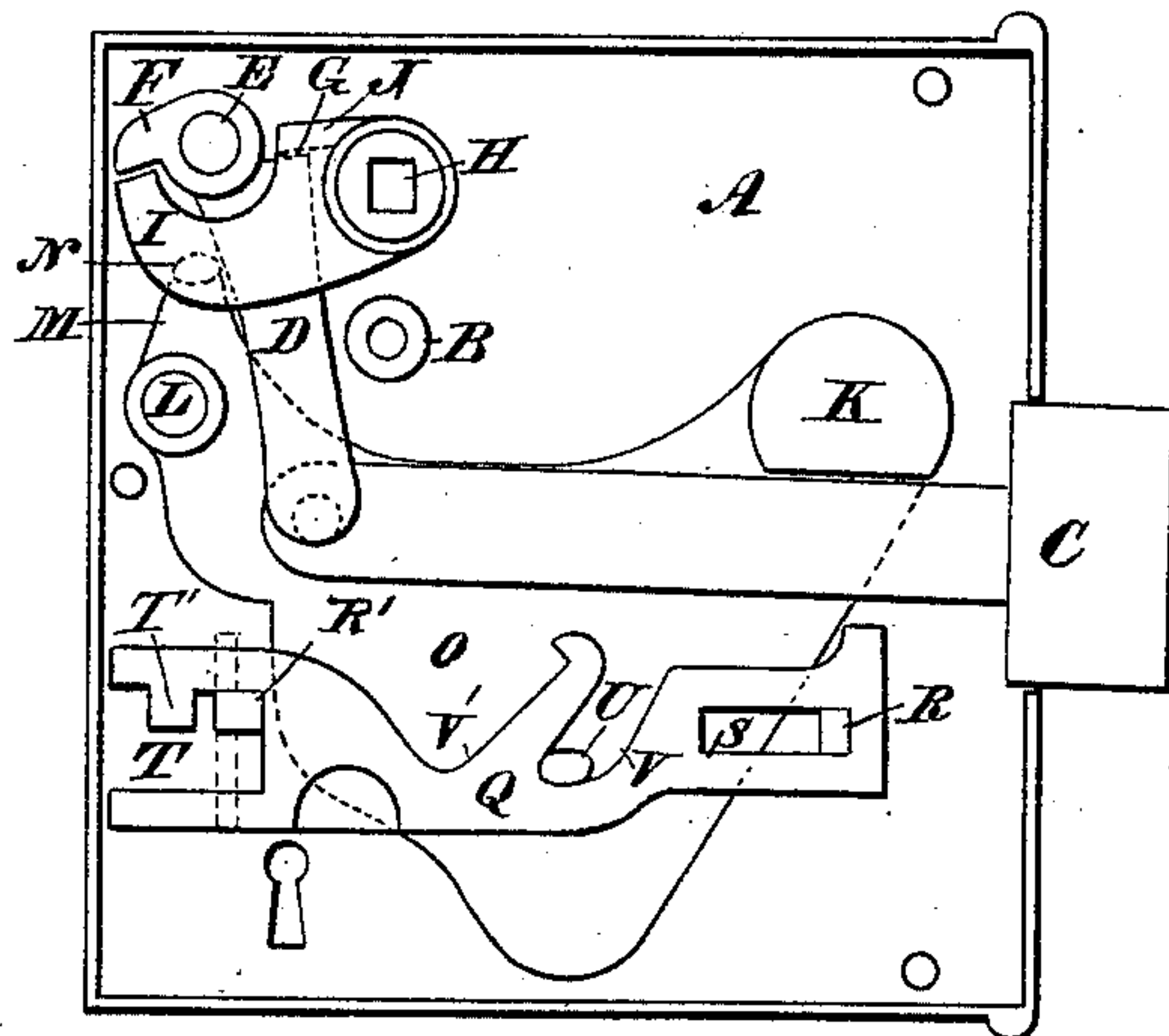


Fig. 1.

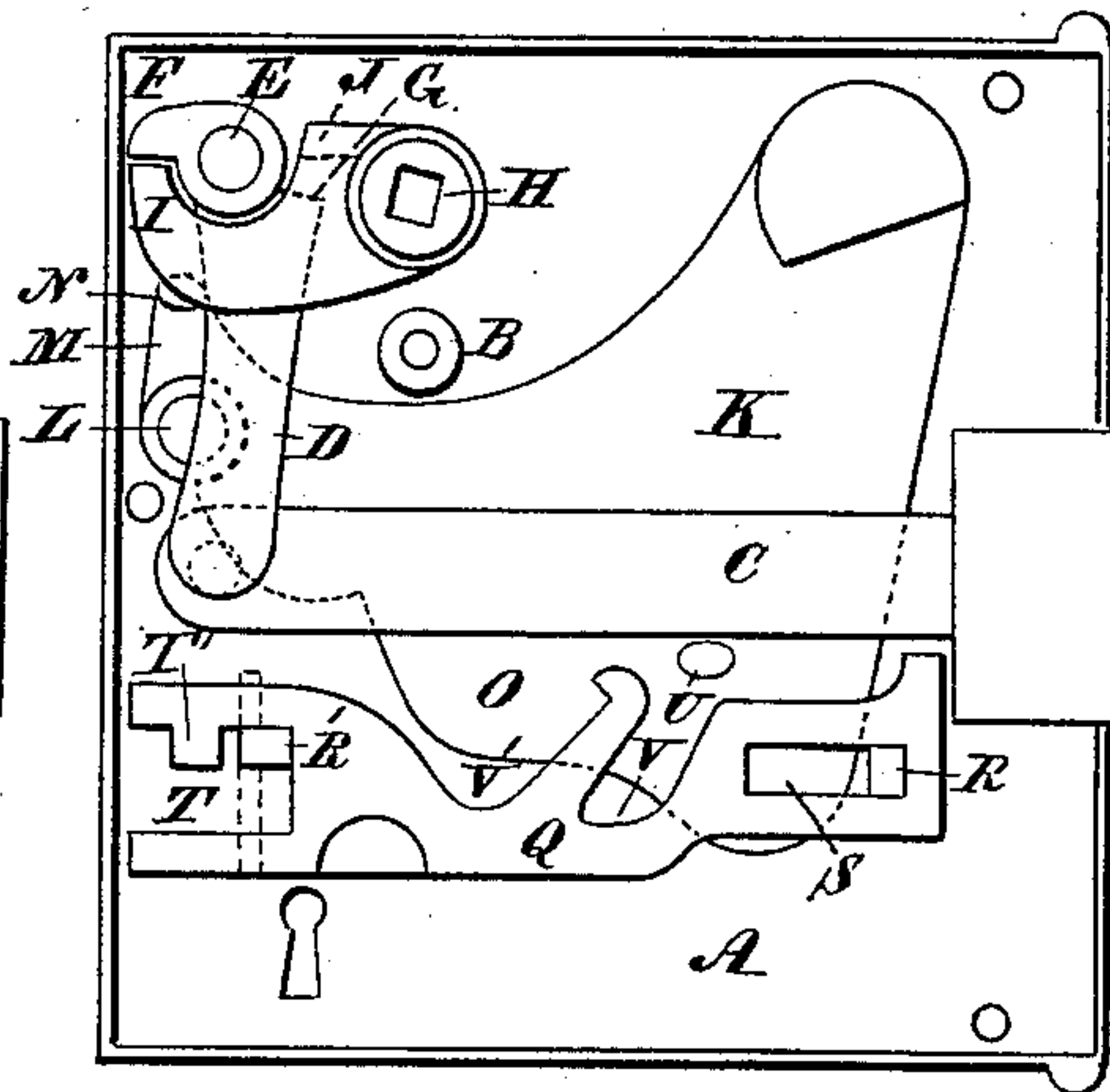


Fig. 2.

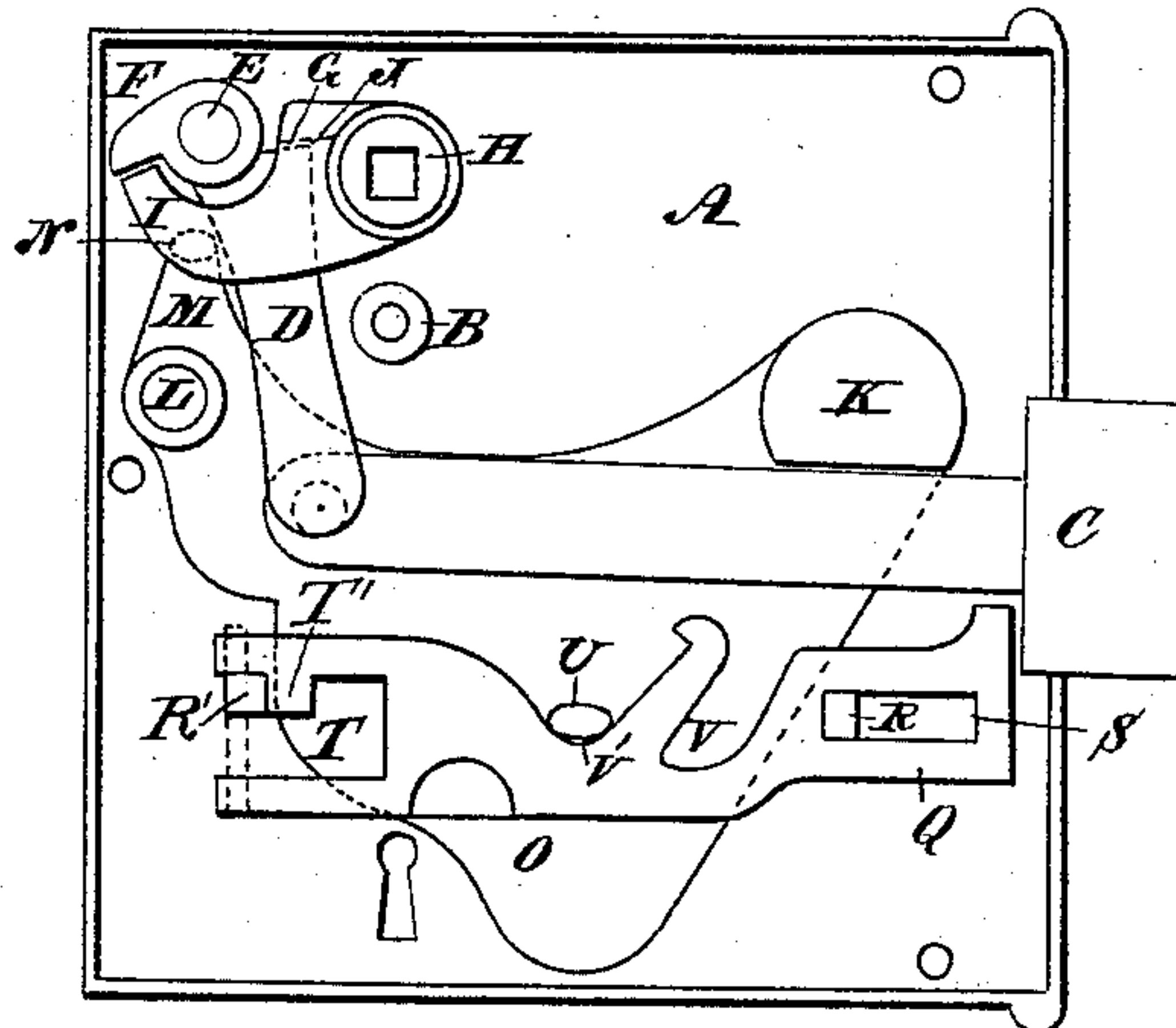


Fig. 3.

Witnesses:

John Crist  
H. P. Penrock.

Inventor:

J. C. Craig.  
By Humphries,  
Attorney.

# UNITED STATES PATENT OFFICE.

JOHN C. CRAIG, OF FENELON FALLS, ONTARIO, CANADA.

## COMBINED LATCH AND LOCK.

SPECIFICATION forming part of Letters Patent No. 387,401, dated August 7, 1888.

Application filed December 27, 1887. Serial No. 259,172. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN CHARLES CRAIG, of Fenelon Falls, in the Province of Ontario, in the Dominion of Canada, have invented  
5 certain new and useful Improvements in Combined Latches and Locks; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, in which—

10 Figure 1 is a plan of the interior of my improved latch and lock, showing the latch-bolt projected. Fig. 2 is a like view showing the latch-bolt retracted, and Fig. 3 is a like view showing the latch-bolt locked.

15 My invention has for its object to construct a springless latch and lock having but one bolt, which is locked by a slide within the latch-case when a gravitating weight which projects the bolt is lifted by a key.

20 My invention consists in certain combination of parts within the lock-case, as will be hereinafter described and specifically claimed.

A is the lock-case, having a hollow post, B, to secure the cover by a screw in the ordinary  
25 manner.

C is the latch and lock-bolt, the inner end pivoted to a pendulum, D, which is hung on a stud, E, fixed to the lock-case and provided with an arm, F, and an offset, G, at the up-  
30 per end.

H is a spindle-socket journaled in a hole in the case and cover, and has an arm, I, engaging with the arm F of the pendulum, and an offset, J, engaging with offset G, so that by  
35 turning the knob-spindle in either direction the pendulum will be swung to retract the bolt.

K is a gravitating weight pivoted at L to the lock-case, and has an arm, M, provided  
40 with a projection, N, to engage the rear edge of pendulum D and cause it to project the bolt after being retracted by turning the knob-spindle. The gravitating weight has a thin portion, O, close to the key-hole, which por-

tion acts as a tumbler against the bit of a key 45 inserted in the key-hole.

Q is a slide immediately above the key-hole, and bears on notched posts R R', fixed to the case, so as to be out of contact with the under-  
50 lying thin portion of the gravitating weight. The slide has at one end a slot, S, which receives post R, and at the opposite end a slot, T, provided with an abutment, T', which overrides post R' when the slide is moved forward  
55 by the key, and the abutment, by subsequent engagement with post R', resists retraction of the slide, and the end of the slide being then in contact with the bolt the bolt is locked by the slide, as shown in Fig. 3.

The gravitating weight is provided with a 60 post, U, and the slide Q has notches V V' to engage the post U after reciprocation of the slide. The thin portion of the gravitating weight acts as a tumbler against the bit of the key, so that the gravitating weight will be  
65 lifted by the key simultaneously with the reciprocation of the slide, and the post, dropping into the inclined notches V V', keeps the slide against the bolt or against post U, respectively, and prevents rattling. 70

I claim as my invention—

1. The combination of the spindle socket H, having an arm, I, and offset J, the pendulum D, having an arm, F, and offset G, and piv-  
75 oted to the lock-case, gravitating weight K, having an arm, M, provided with a projection, N, and pivoted to the lock-case, and bolt C, pivoted to the pendulum, as set forth.

2. The combination, in a combined latch and lock, of the gravitating weight K, having 80 post U, pendulum D, bolt C, and slide Q, having inclined notches V V', as set forth, for the purpose described.

J. C. CRAIG.

Witnesses:

DONALD McFADDEN,  
E. FITZGERALD.