

H. R. Gillingham,

Lock.

N^o 68,622.

Patented Sep. 10, 1867.

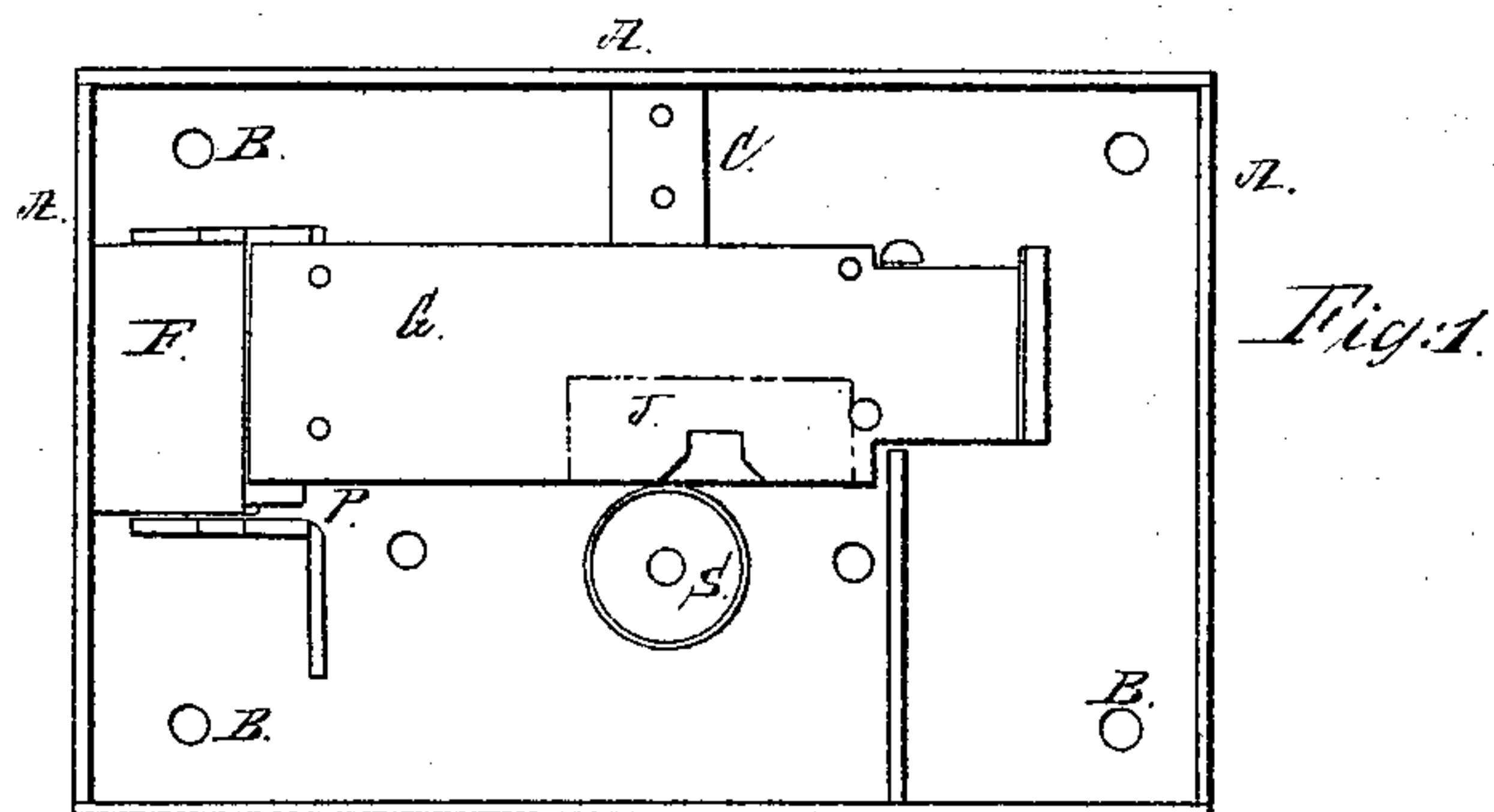


Fig. 2.

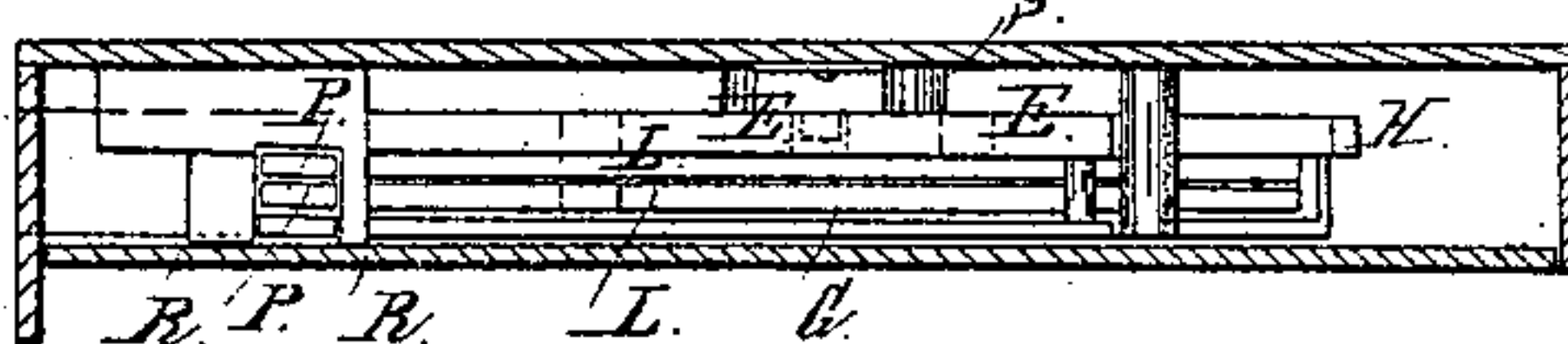


Fig. 3.

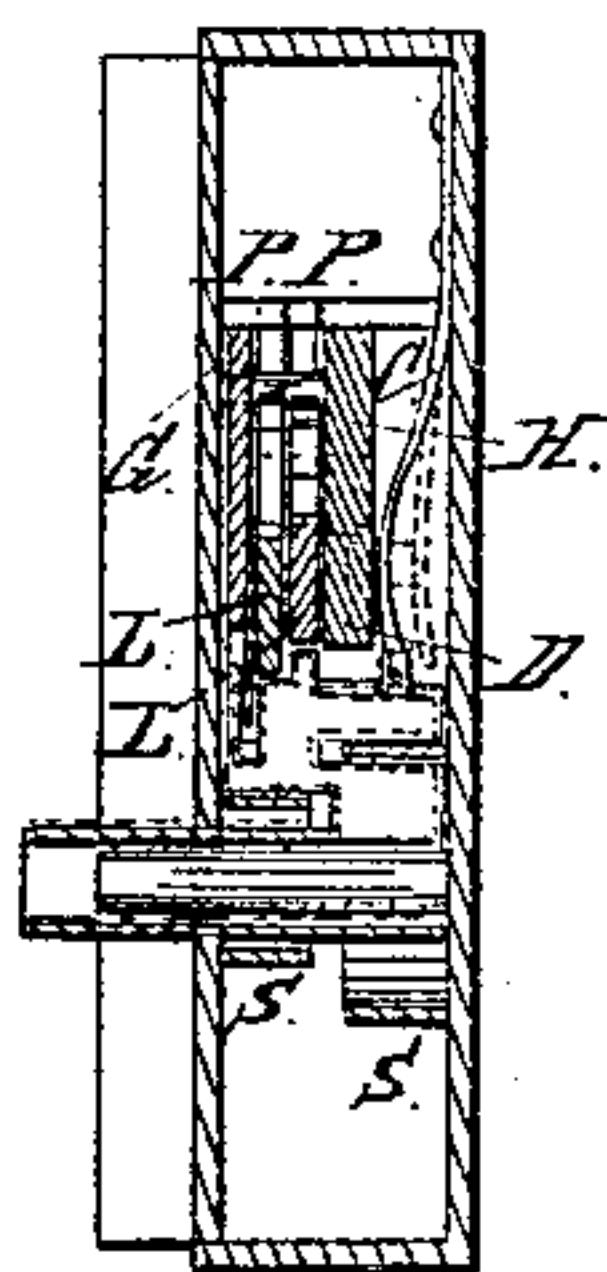


Fig. 4.

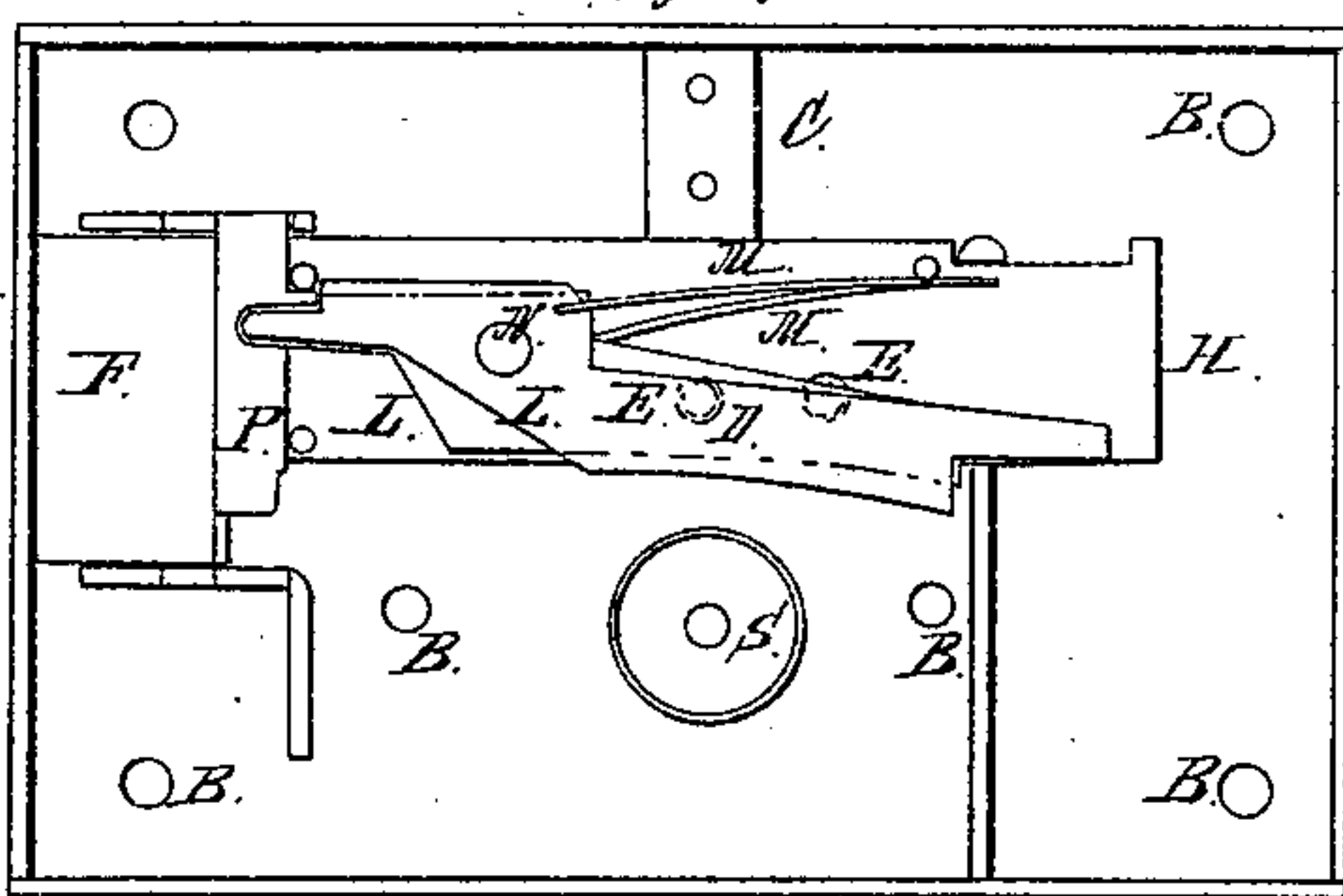


Fig. 5.

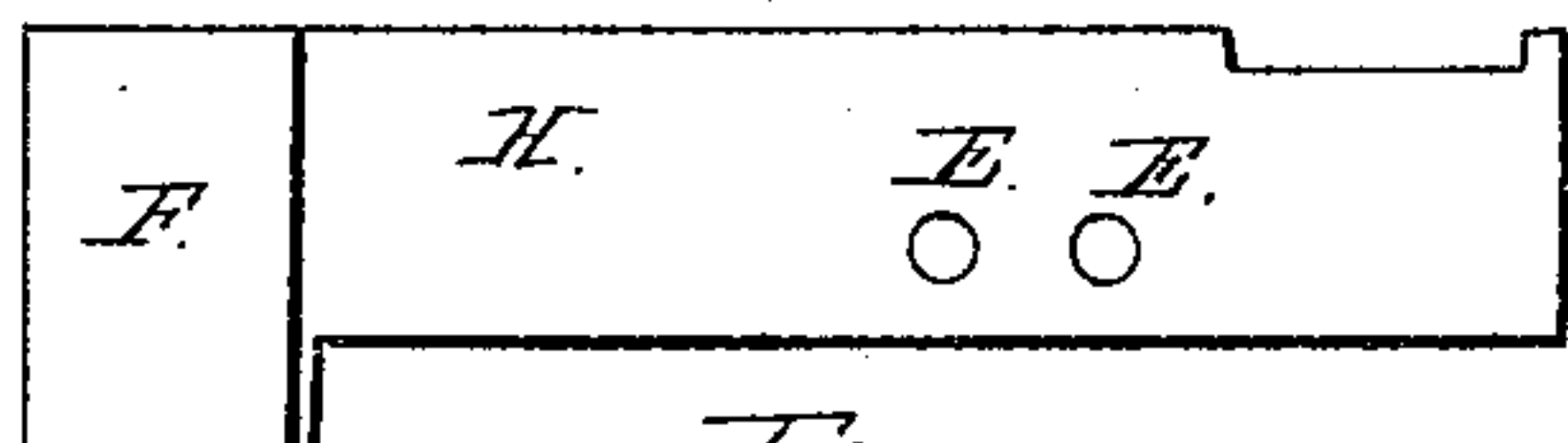
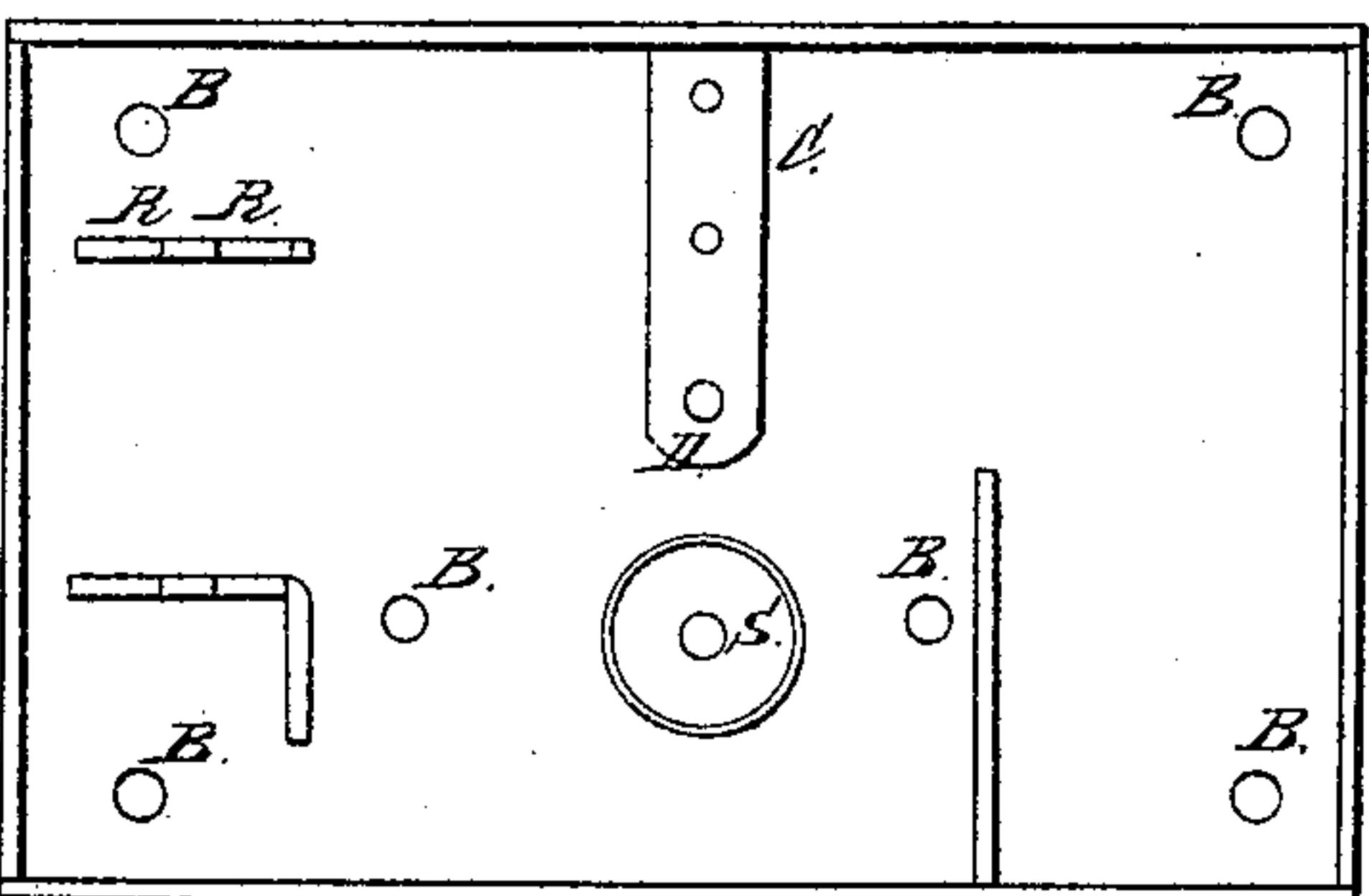


Fig. 6.



Witnesses:

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Inventor:

Henry R. Gillingham

By his Atty J. H. Reigart.

United States Patent Office.

HENRY R. GILLINGHAM, OF BALTIMORE, MARYLAND, ASSIGNOR TO HIMSELF, CHRISTOPHER R. GILLINGHAM, AND AMBROSE L. HUGGINS, OF THE SAME PLACE.

Letters Patent No. 68,622, dated September 10, 1867.

IMPROVEMENT IN DOOR-LOCKS.

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

TO ALL WHOM IT MAY CONCERN:

Be it known that I, HENRY RABORG GILLINGHAM, of the city of Baltimore, county of Baltimore, and State of Maryland, have invented new and useful "Improvements in Door, Safe, or Pad-Locks;" and I do hereby declare the following to be an exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification, in which—

Figure 1 represents an inside view of the lock.

Figure 2, a longitudinal section.

Figure 3, the inside spring levers.

Figure 4, the back side of the bolt, showing two apertures.

Figure 5, the back plate, with the spring and pin that fits into the apertures at fig. 4.

Figure 6, a cross-section.

Figures 7 and 8 represent the shape of the key.

The nature of my invention consists in the construction and arrangement of the spring levers in the centre of the bolt-plate, operating upon small upright tumblers that secure the bolt when locked or unlocked, the bolt containing the devices between and within its side plates, with a flat spring attached to the back part of the case of the lock that has a pin that falls into two apertures in the back of the bolt-plate as an additional security to hold the bolt when locked or unlocked.

A represents the case or outside plates of the lock, with the apertures B for the insertion of screws to fasten it together. C, a flat spring, riveted fast to case A, with a projecting pin, D, at its lower end, to fall into the apertures E E in the back of the bolt-plate H to hold the bolt F securely to its place when locked or unlocked. The bolt F is solid at its front end, but more than three-fourths of its length is formed of two plates, G and H, the front plate G having an angular recess, J, for the ward of the key to catch in. The back plate H operates on the flat spring C, and as it slides back or forward the pin D falls into either aperture E to hold the bolt. L L are two levers, with springs M attached. The levers operate on a fulcrum-pivot, N, and their points fit into upright tumblers P P, that operate vertically by means of the raising or lowering of the points of the levers L L as the levers are acted upon by the wards of the key. These tumblers P P are held between two projections or posts, R, that secure the bolt F when it is locked or unlocked. This lock has also two circular wards S S on each plate A, with which the wards of the key correspond, and which likewise secure the lock against being picked or opened by burglars.

What I claim as my invention, and desire to secure by Letters Patent, is—

The combination and arrangement of the vertical sliding tumblers P P, operated by the spring levers L L pivoted between the side bolt-plates G and H, the latter being held and secured by the spring pin D in both the locked and unlocked position of the bolt, substantially in the manner herein shown and described.

H. R. GILLINGHAM.

Witnesses:

J. FRANKLIN REIGART,
JOHN S. HOLLINGSHEAD.