

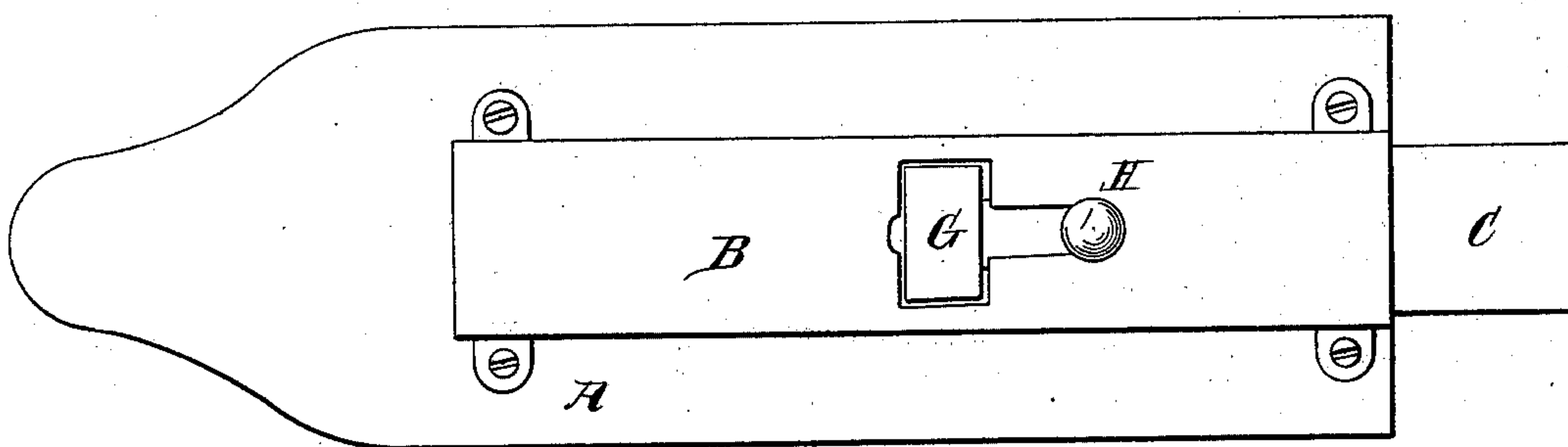
*B. F. Lotridge,*

*Door Bolt*

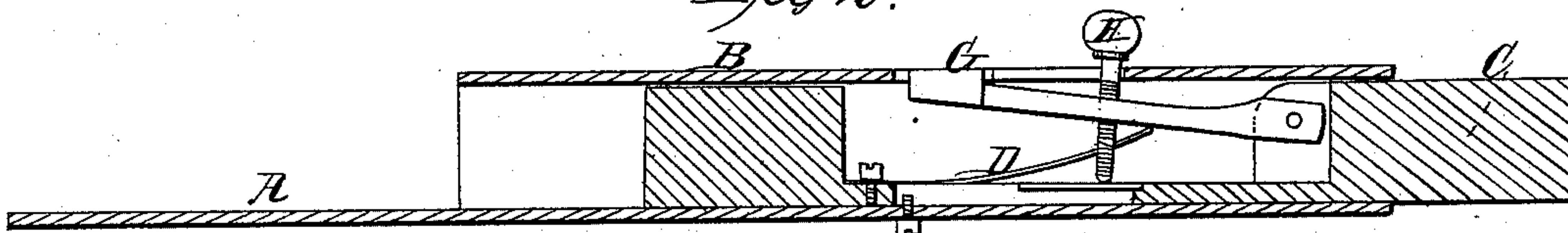
*Nº 80,295.*

*Patented July 28, 1868.*

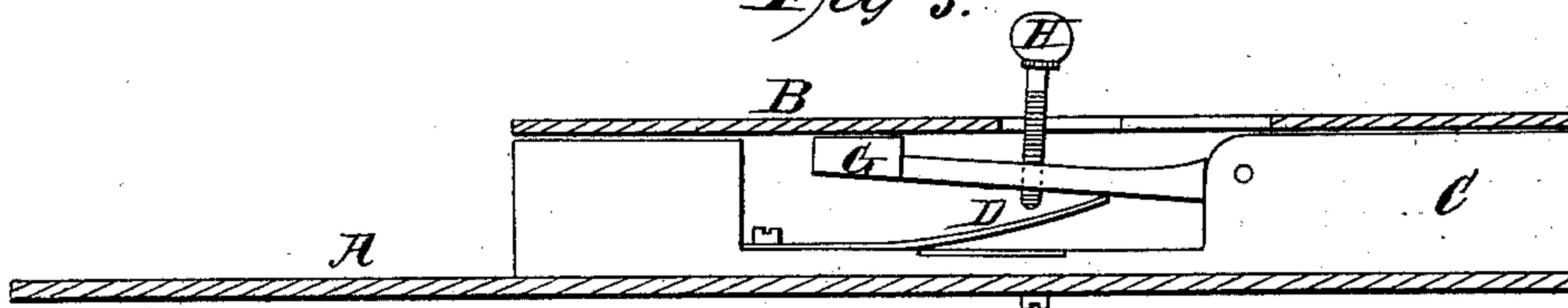
*Fig 1.*



*Fig 2.*



*Fig 3.*



*Witnesses.*

*Abner D. Lane*  
*John Buchanan*

*Inventor*

*B. F. Lotridge*

# United States Patent Office

BENJAMIN F. LOTRIDGE, OF NEW YORK, N. Y.

*Letters Patent No. 80,295, dated July 28, 1868.*

## IMPROVEMENT IN BOLTS.

*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, BENJAMIN F. LOTRIDGE, of the city, county, and State of New York, have invented, made, and applied to use certain new and useful Improvements in the Construction and Operation of Door-Bolts; and I do declare the following to be a full, clear, and correct description of my invention, reference being had to the accompanying drawings, making part of this specification, and to the letters of reference marked thereon, in which—

Figure 1 is a front view of my improved bolt.

Figure 2 is a sectional view of the same, the bolt being thrown out.

Figure 3 is a sectional view of the same, the bolt being thrown in.

In the drawings, like parts of the invention are pointed out by the same letters of reference.

The nature of my invention consists in certain improvements, as more fully hereinafter set forth, in the construction and operation of door-bolts.

The object of the invention is to so construct the bolt, that, when thrown forward into position, as shown in figs. 1 and 2, it will be firmly secured in position, and can only be removed from the same at the will of the operator.

To enable those skilled in the arts to make and use my invention, I will proceed to describe the same.

A shows a base-plate, upon which is secured the case B, in which the bolt is held and operates. This case is slotted transversely upon its face, to allow the tongue-piece G, attached to the bolt, as hereinafter described, to enter within it as the bolt is thrown out, and is also slotted longitudinally, to allow the set-screw H, attached as hereinafter described, to operate freely to and fro. The transverse slot may be made of about the same dimensions as the tongue-piece G.

C is the bolt, secured in the case B, and having upon its face the flat spring D, the forward portion of which rises directly beneath the tongue-piece G, secured in a socket in the front end of the bolt, so that it can be elevated or depressed, as required.

Through the case B, tongue-piece G, and spring D, is passed a set-screw, H, having its bearing upon the bottom of the bolt-plate.

The bolt-plate may be slotted upon its under side, to admit of its being passed freely over the screw passed through the bottom of the base, A, intended to hold it to the same.

Such being the construction, the operation is as follows:

When the bolt is withdrawn within the case B, (see fig. 3 of the drawings,) the tongue-piece is depressed beneath the case, and the spring D also has its forward end, bearing directly beneath the tongue-piece, depressed.

When the bolt has been thrown forward, as in figs. 1 and 2, the tongue-piece is brought directly beneath the transverse opening in the case B, and as this occurs, the spring, bearing upon the under side of the tongue-piece, causes the same to rise and fill the opening, against the sides of which it finds a bearing. Thus the bolt is secured firmly in position, removable only at the will of the operator.

The set-screw H is employed only to more thoroughly accomplish the object of the spring D, and will be found useful whenever the spring shall have lost its tension. As this screw is depressed, it causes the tongue-piece to rise in the opening, and when desired to remove or release the bolt, the screw is elevated, and the tongue-piece will be depressed.

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

In combination with the slotted case B, the bolt C, tongue-piece G, set-screw H, and spring D, when the same shall be constructed and operated substantially as described, for the purposes specified.

BENJAMIN F. LOTRIDGE.

Witnesses:

A. SIDNEY DOANE.

J. BUCHMAN.