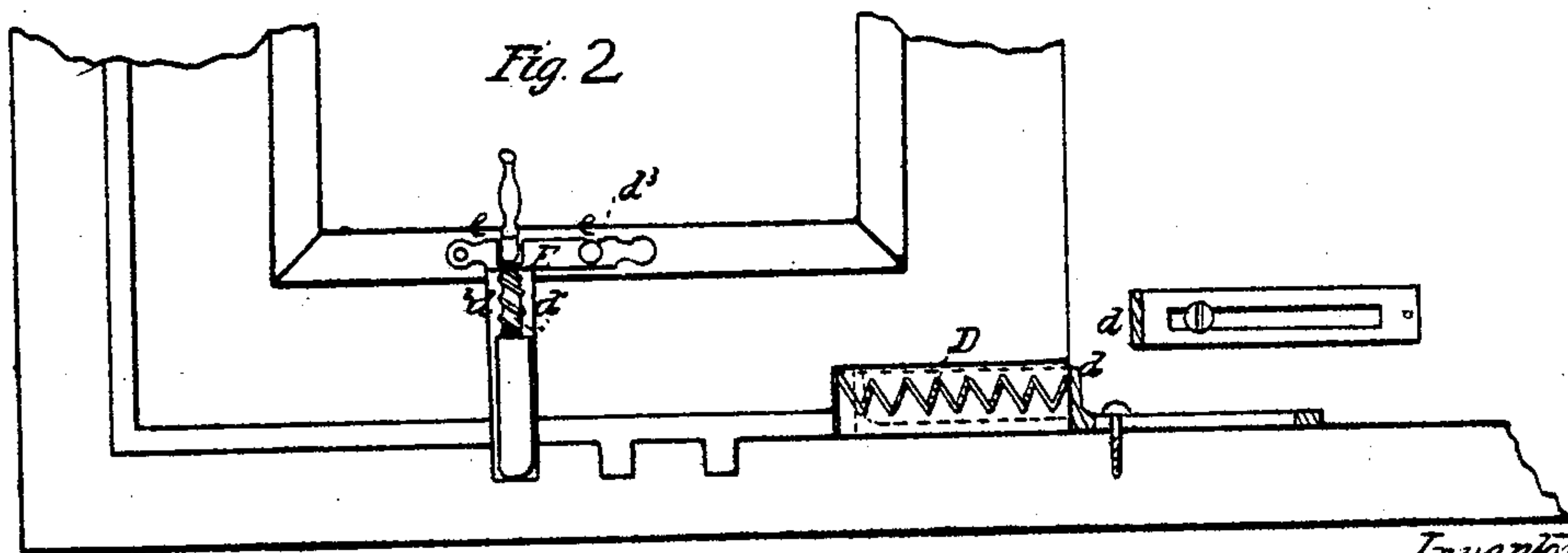
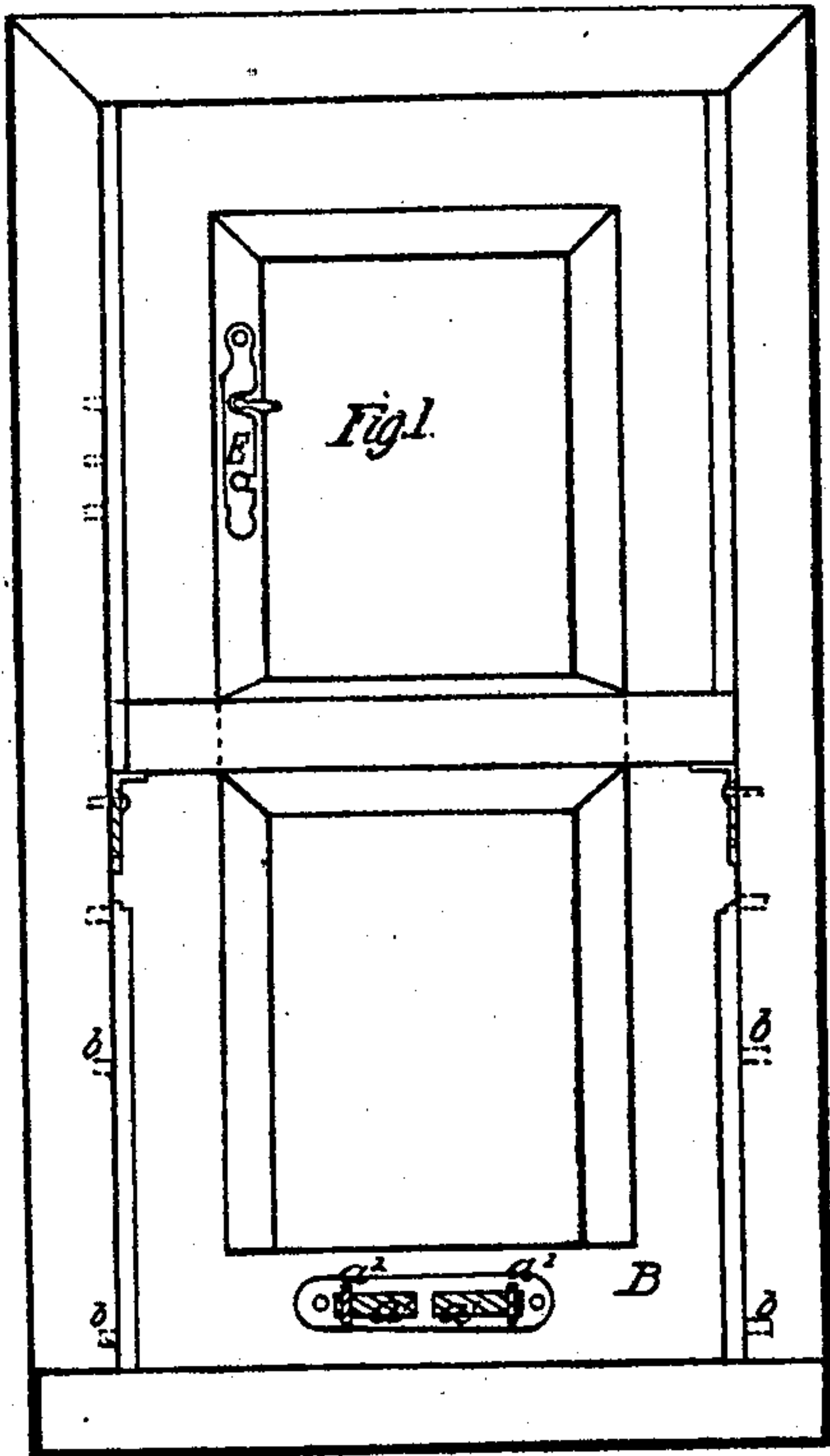


J. Howland.
Sash Holder.

N^o 96701.

Patented Nov. 9. 1869.



Witnesses:

Chas. A. Brown.
Fred. Thomas

Inventor.

Joshua Howland by
H. M. Beadles atty

UNITED STATES PATENT OFFICE.

JOSHUA HOWLAND, OF ASHLAND, OHIO.

IMPROVED SASH-HOLDER.

Specification forming part of Letters Patent No. 96,701, dated November 9, 1869.

To all whom it may concern:

Be it known that I, JOSHUA HOWLAND, of Ashland, in the county of Ashland and State of Ohio, have invented a new and useful Improvement in Sash-Fasteners; and I do hereby declare that the following is a full and exact description of the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

This invention relates to certain improved methods of operating the sashes of a window by spiral springs, in connection with a suitable stop device, as will hereinafter more fully appear.

In the drawings, Figure 1 is a side elevation of a window provided with my invention; Fig. 2, a similar section of the upper sash.

To enable others skilled in the art to make and use my invention, I will now proceed to describe fully its construction and operation.

The sides of the sash are provided with vertical grooves, which terminate near the upper end of the same, and are of sufficient size to admit the spiral springs D D, the lower ends of which rest on brackets *d d*.

d' represents a spring-bolt which passes through an orifice in the side of the sash, and is provided with a spiral spring, *d²*, which is held by a plate, E, which latter is pivoted at

its upper end and provided with slots *e e*, which fit over the bolt *d'* and a screw, *d³*, thereby holding the spring in the sash. The brackets *d* are provided with slots, by which they are attached by set-screws, and are adjustable vertically.

The operation of my invention will be readily understood. To lower the sash the bolt *d'* is withdrawn by means of its projecting end, and the sash depressed until the bolt springs into another orifice and confines the same.

If the spring *d²* is broken, another may be inserted by swinging aside the plate E.

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

1. The slotted plate E, in combination with the spiral spring *d²* and bolt *d'*, substantially as described.

2. The spiral spring D, in combination with the adjustable brackets *d*, as and for the purpose set forth.

This specification signed and witnessed this 1st day of March, 1869.

JOSHUA HOWLAND.

Witnesses:

ELIAS SHOPBELL,
PETER DESHANE.