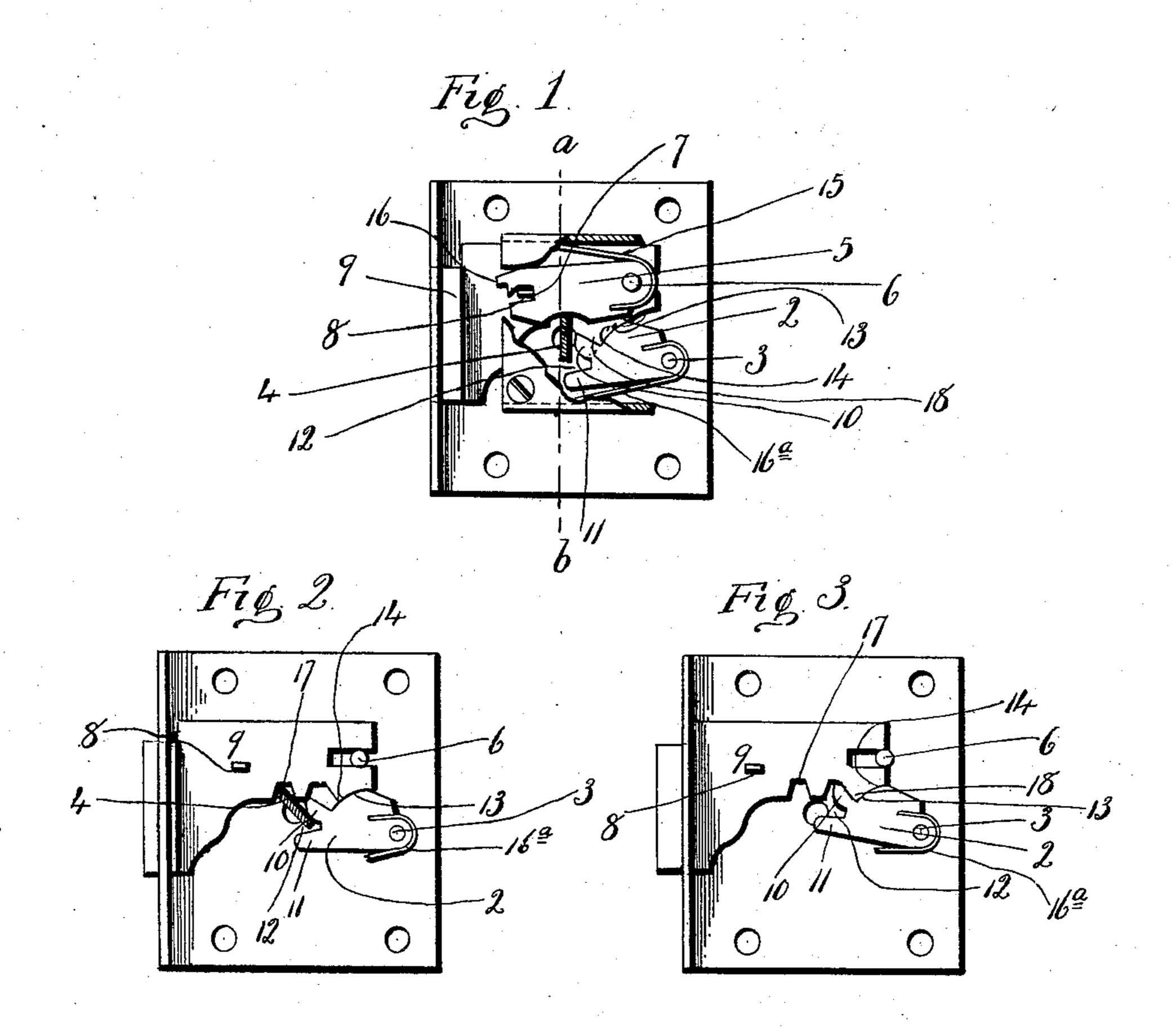
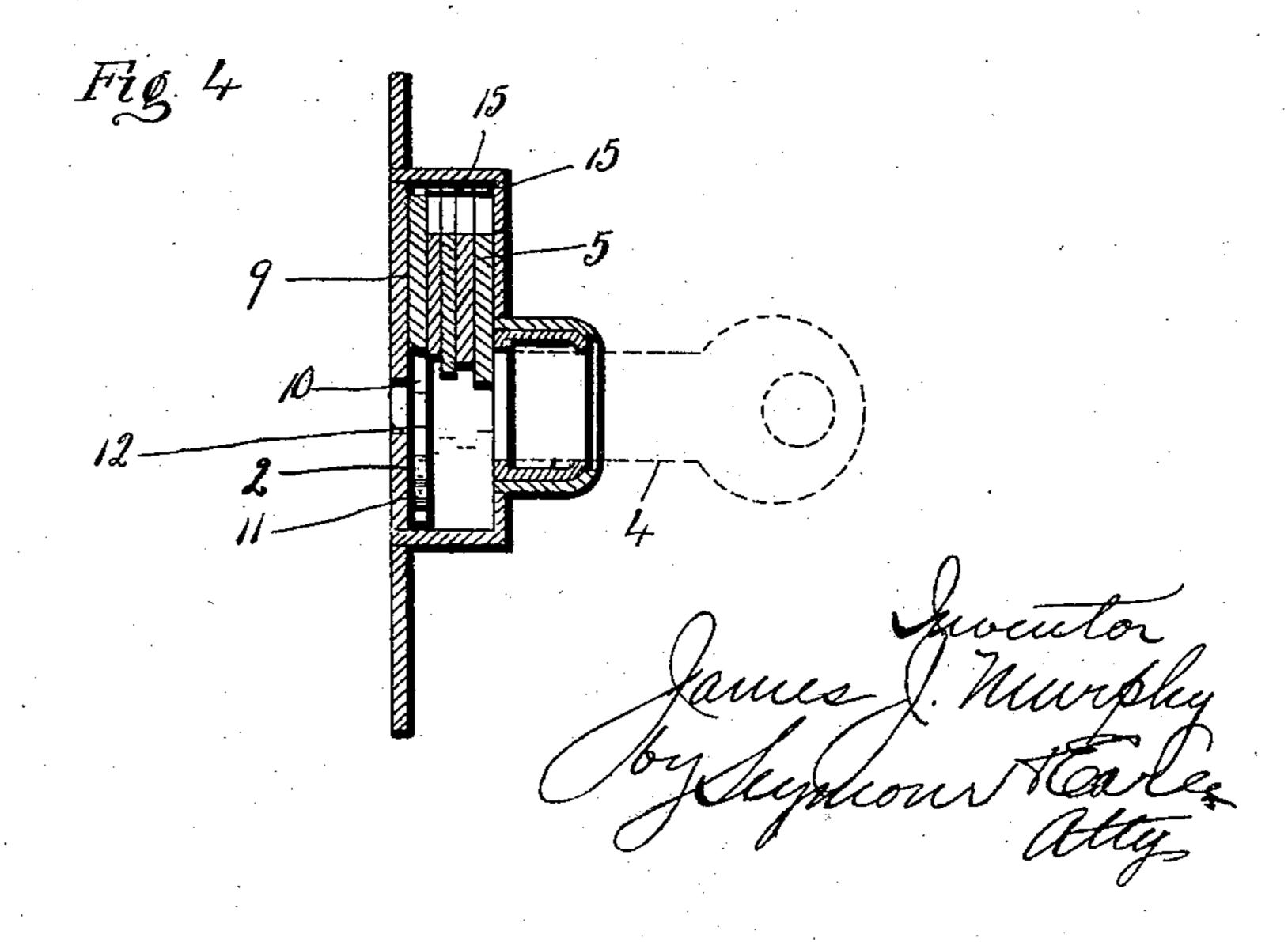
J. J. MURPHY. LOCK.

APPLICATION FILED OUT. 11, 1909.

944,685.

Patented Dec. 28, 1909.





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UNITED STATES PATENT OFFICE.

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LOCK.

944,685.

Specification of Letters Patent. Patented Dec. 28, 1909.

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To all whom it may concern:

Be it known that I, James J. Murphy, a citizen of the United States, residing at Terryville, in the county of Litchfield and 5 State of Connecticut, have invented a new and useful Improvement in Locks; and I do hereby declare the following, when taken in connection with the accompanying drawings and the characters of reference marked there-10 on, to be a full, clear, and exact description of the same, and which said drawings constitute part of this specification, and represent, in—

Figure 1 a view in elevation of a lock con-15 structed in accordance with my invention. Fig. 2 a corresponding view of the lock with the tumblers removed and showing the position of the blocking-lever after it has been brought into play, but before the bolt has 20 been shot into its fully locked position. Fig. 3 a similar view showing the bolt in its fully locked position. Fig. 4 a sectional

view on the line a—b of Fig. 1.

My invention relates to an improvement 25 in bolt locks, the object being by simple, compact and reliable means, to prevent what is known in the art as "kicking", by which is meant the forcing of the bolt back into its unlocked position by pressure however ex-30 erted, upon its outer end during the operation of throwing it out by the key.

With these ends in view, my invention consists in a lock having certain details of construction and combination of parts as 35 will be hereinafter described and pointed

out in the claims.

In carrying out my invention as herein shown, I employ a blocking-lever 2 swinging upon a pivot 3 and virtually located on the 40 opposite side of the key 4 from the tumblers 5 which swing upon a pivot 6 and which are formed with the usual gates 7 for the reception of the stump 8 carried by the bolt 9. The said blocking-lever 2 is formed with fin-45 gers 10 and 11 separated by a notch 12 which permits the adjacent edge of the key to coact with the rounded inner surface of the said finger 10 for positively swinging the lever inward toward the center of the lock so as to 50 move its blocking surface 13 into a corresponding but concaved blocking surface 14 in the bolt, whereby the lever 2 is thrown into the path of the bolt so as to prevent the same from being by any means pushed back

into its unlocked position at any time during 55 the operation of throwing it into its unlocked position by the key. When the bolt has finally been moved into its unlocked position by the key, the tumblers 5 are swung by their springs 15 so as to engage their 60 noses 16 with the stump 8, whereby the bolt is positively held in its locked position by the tumblers. But until this happens the coaction of the surfaces 13 and 14 just described, prevents the bolt from "kicking" 65 back into its unlocked position by pressure upon its outer end. A spring 16a carried by the lever 2 operates to hold the same in position for having its notch 12 entered by the adjacent edge of the key.

It will be understood that when the key is introduced into the lock, it begins to swing

the blocking-lever 2 into position for preventing "kicking", simultaneously with its coaction with the sweeps of the tumblers 5 75 for the operation thereof and with its coaction with the bolt 9 for operating the same, the bolt being furnished with a notch 17 for the reception of the edge of the key opposite the edge thereof which enters the notch 12. 80 When the lock is being unlocked, the tooth

18 of the bolt coacts with the surface 13 of the lever 2 to force the same against the tension of its spring, back into its normal posi-

tion in which it is shown in Fig. 1.

1 claim:—

1. In a lock, the combination with the bolt and the tumblers thereof, of a blocking-lever positively operated by the lock key and coacting with the bolt for preventing the same 90 from "kicking" back while it is being moved into its locked position.

2. In a lock, the combination with the bolt

and tumblers thereof, of a blocking-lever located on the opposite side of the key from 95 the said tumblers in position to be engaged by the key for blocking the bolt against "kicking" back while being moved from its

unlocked to its locked position.

3. In a lock, the combination with the bolt 100 and tumblers thereof, of a pivotal blockinglever formed with a notch for the reception of the lock key, whereby the blocking-lever is moved into position to prevent the bolt from "kicking" back while being moved 105 into its locked position.

4. In a lock, the combination with the bolt and tumblers thereof, of a pivotal blocking-

lever located on the opposite side of the lockkey from the said tumblers and formed with a convex surface coacting with the shank of the bolt for blocking the bolt and preventing the same from "kicking" back while the bolt is being moved into its locked position.
In testimony whereof, I have signed this

specification in the presence of two subscribing witnesses.

JAMES J. MURPHY.

Witnesses:

Otis B. Hough, HARRY C. CLOW.