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PATENTED FEB. 14, 1905.

F. NEUDORFF.  
SASH LOCK, LIFT, AND SUPPORT.  
APPLICATION FILED APR. 23, 1904.

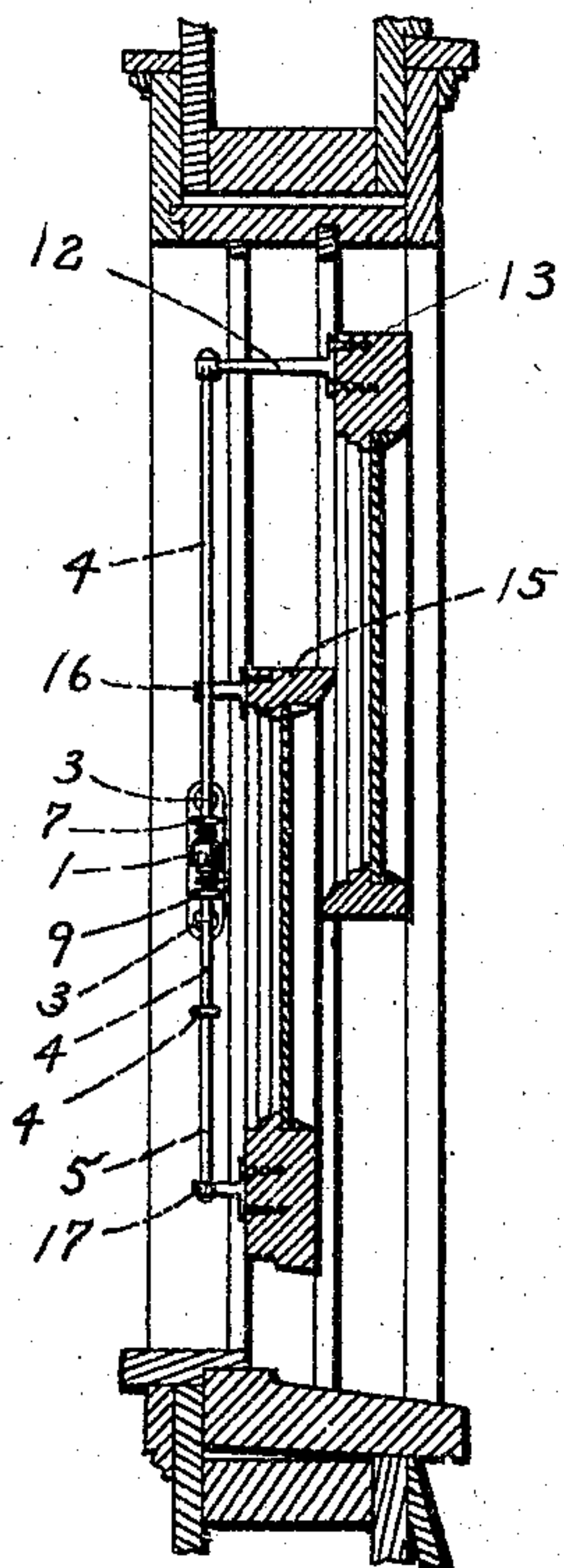


FIG. 1.

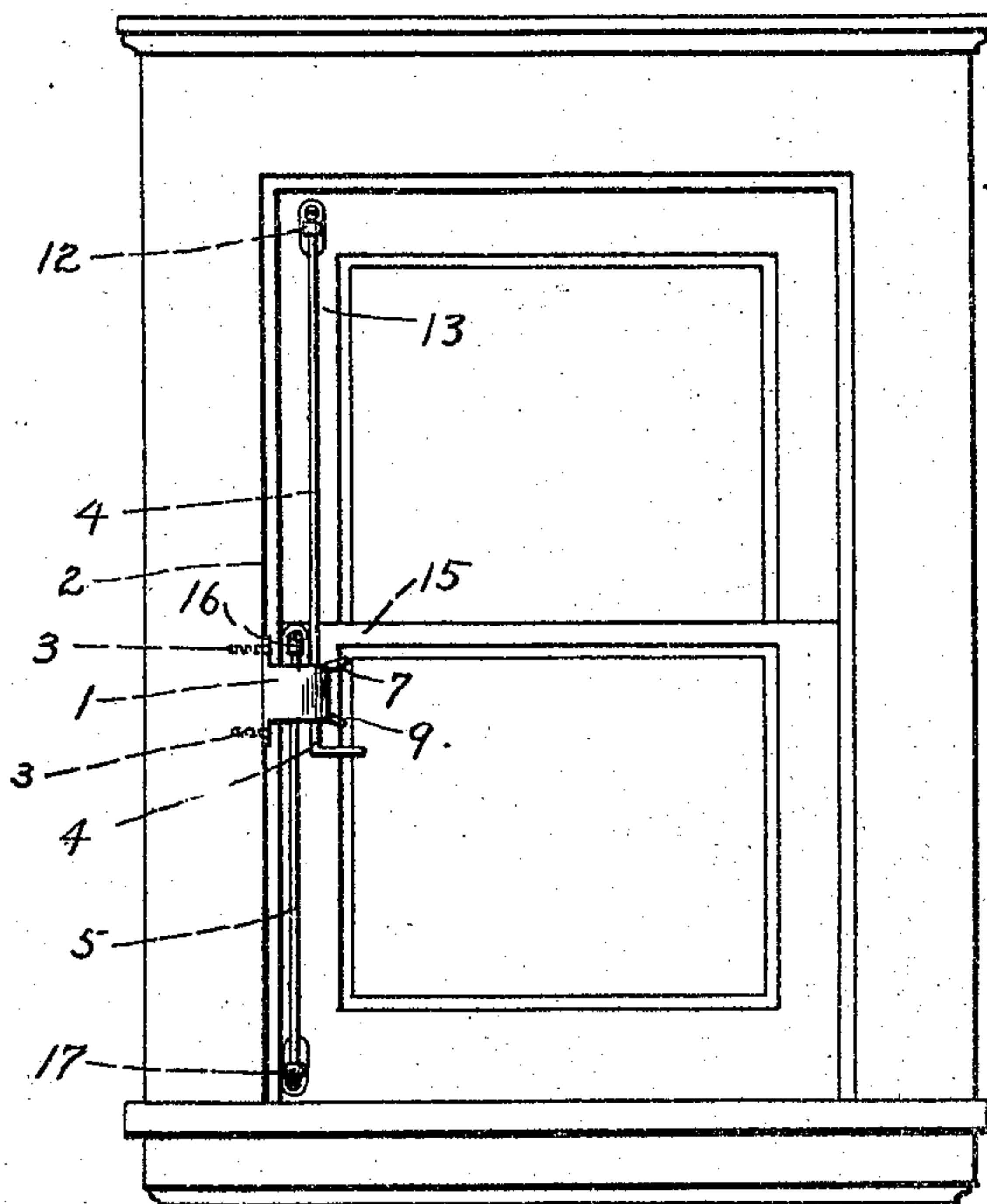


FIG. 2.

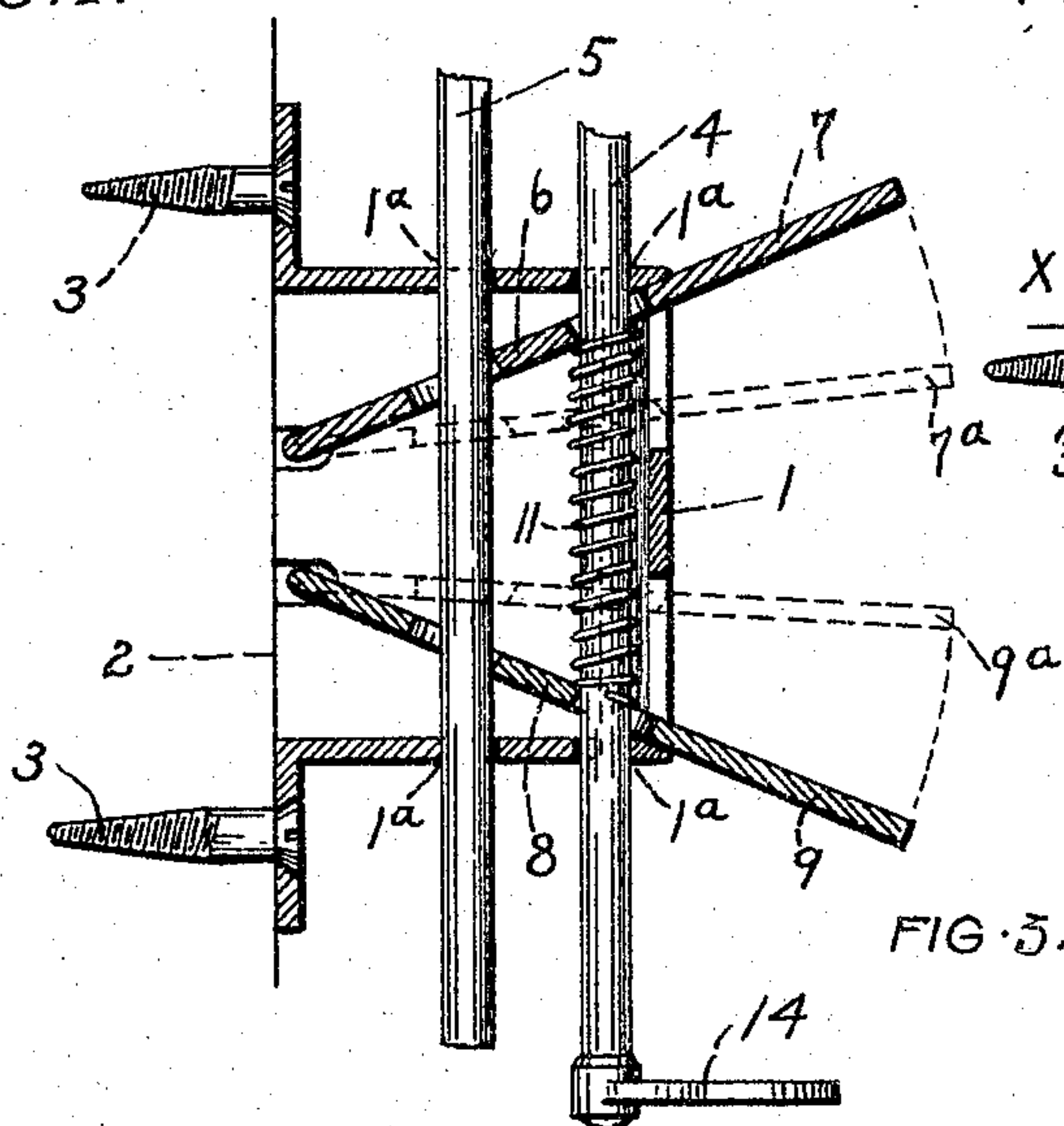


FIG. 3.

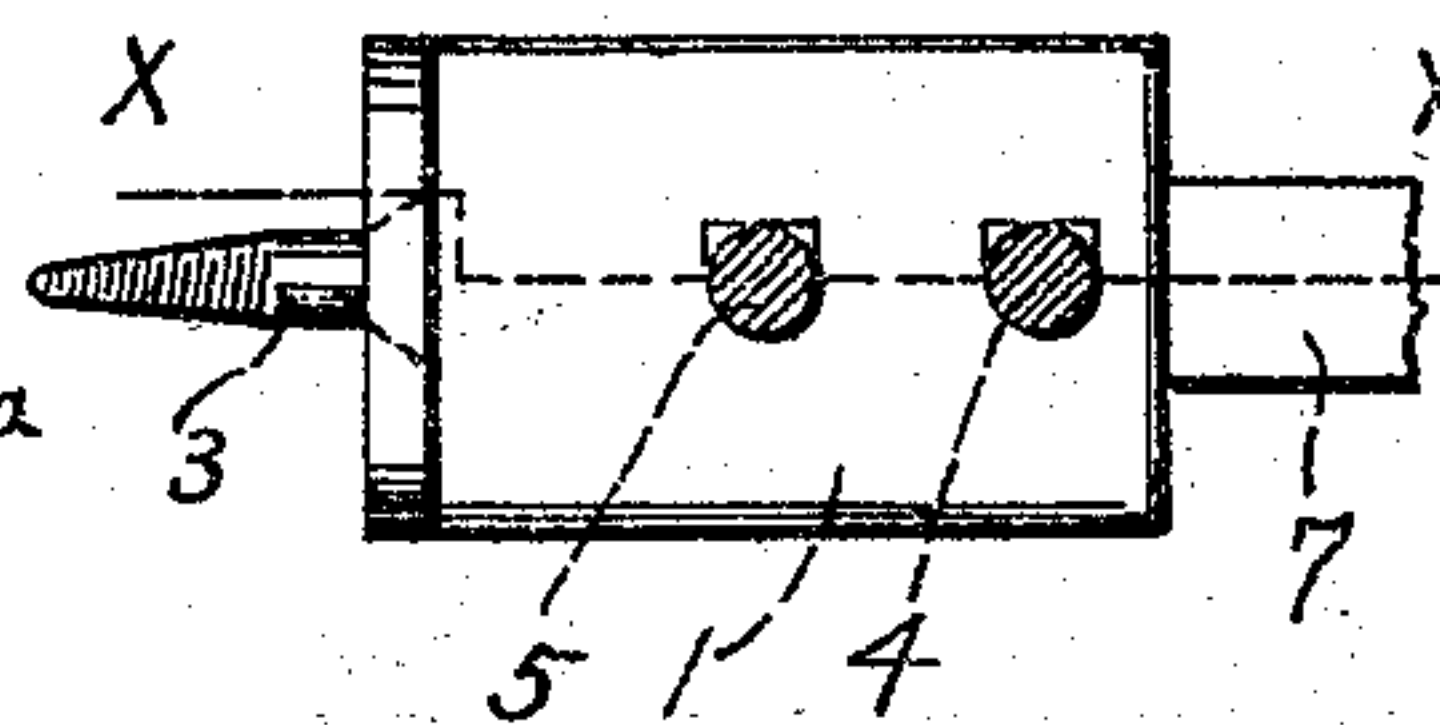


FIG. 4.

WITNESSES

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# UNITED STATES PATENT OFFICE.

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## SASH LOCK, LIFT, AND SUPPORT.

SPECIFICATION forming part of Letters Patent No. 782,412, dated February 14, 1905.

Application filed April 23, 1904. Serial No. 204,500.

*To all whom it may concern:*

Be it known that I, FREDERICK NEUDORFF, a citizen of the United States, residing at St. Joseph, in the county of Buchanan and State of Missouri, have invented certain new and useful Improvements in a Combined Sash Lock, Lift, and Support, of which the following is a specification.

My invention relates to improvements in a sash lock, lift, and support combined which have for their objects the provision of a neat, substantial, and durable device by which either sash, or both, of an ordinary window may be automatically locked and supported at any desired position and by which said sash may be raised or lowered without inconvenience to the operator and to so arrange the parts that the automatic lock shall be inaccessible from outside the window and be so constructed that the two sash may be operated independently or jointly. I attain these objects by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a side elevation of my invention and a transverse section cut vertically through the center of a window, showing two sash jointly locked. Fig. 2 is a front elevation showing two sash jointly locked. Fig. 3 is a vertical section of lock cut on the line X X seen in Fig. 4. Fig. 4 is a top plan of lock.

My invention consists of two rods, each of which is secured to a sash, and means for automatically locking said rods at any desired elevations, as hereinafter fully described.

In the preferred form of my invention (seen in Figs. 1, 2, 3, and 4) automatic lock 1, (see Fig. 3,) secured to window-jamb 2, is provided with two rods 4 and 5, slidable through said lock and automatically secured or locked therein by the pressure of part 6 of lever 7 and part 8 of lever 9, actuated by spring 11 to press outwardly against and between rods 5 and 6, whose outward travel is stopped by frame of lock at 1<sup>a</sup>. It will be seen in Fig. 3 that this outward pressure of part 6 would be increased by a downward thrust upon rod 5 or an upward thrust of rod 4 and that part 8 would have its locking pressure augmented by a reversal of said thrusting. It will readily be understood that when levers 7 and 8

are pressed by the finger and thumb of the operator (not shown) to the position indicated by dotted lines at 7<sup>a</sup> and 9<sup>a</sup>, respectively, the diagonally opposite corners of parts 6 and 8 (between and normally pressing outwardly against, and thereby locking rods 4 and 5) will be moved from position shown to such position as will bring the shorter longitudinal extension of parts 6 and 8 between rods 4 and 5, thereby releasing said rods and allowing them to be freely passed upward or downward through lock 1 at the pleasure of the operator, and that upon releasing levers 7 and 9 spring 11 will again drive levers 7 and 9 to the positions most clearly shown in Fig. 3, thus automatically locking rods 4 and 5.

In the use of my invention, as seen in Figs. 1 and 2, rod 4 has its upper end secured by a bracket 12 to the upper sash 13 of an ordinary window and has its lower extremity provided with a handle by which sash 13 may, raised or lowered while rod 4 is released and by said rod and lock 1 be automatically locked at any desired elevation, as hereinbefore described.

It will readily be seen from the foregoing-described operation of my invention that sash 13 may with ease and facility be lifted or lowered to any desired elevation and be automatically locked and supported in such position.

Rod 5 has its upper end secured to sash 15 by bracket 16 and its lower extremity secured to said sash by bracket 17, which also serves as a handle by which to raise and lower sash 15 when rod 5 is released, and by rod 5 and lock 1 be automatically locked and supported at any desired elevation, as hereinbefore described. It will be seen by referring to Fig. 3 that the releasing and locking of rods 4 and 5 are performed by parts acting jointly on said rods, affording extreme rapidity in the operation of sash 13 and 15, where the usual means are provided for counterbalancing the weight of said sash.

I am aware that sash-locks have been devised in which a single sash-rod is locked by a pair of clamp-levers; but all such locks of which I am aware (except my invention) are only usable for locking but one rod. I am also aware that other sash-locks have been

invented in which each of two sash-rods is independently locked by its respective and independently-operated pair of clamping-levers; but I am not aware that any sash-lock  
5 in which two sash-rods are jointly locked by one and the same pair of clamp-levers has ever been invented prior to my invention thereof. I thus provide a simple lock of few parts adapted to a wide variety of applica-  
10 tions, and which can be operated with the utmost ease and rapidity.

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

15 In a combined sash-lock, lift and support, a

lock, one pair of clamping parts within said lock, one pair of spring-actuated levers for operating said clamping parts, two rods slidable through said lock, and jointly lockable and releasable by said pair of levers, each rod 20 having its respective sash attached thereto as shown, and means at the lower extremities of said rods for lifting their respective sash.

In testimony whereof I affix my signature in presence of two witnesses.

FREDERICK NEUDORFF.

Witnesses:

GEORGE W. HINTON,  
ALFRED P. KELLER.