

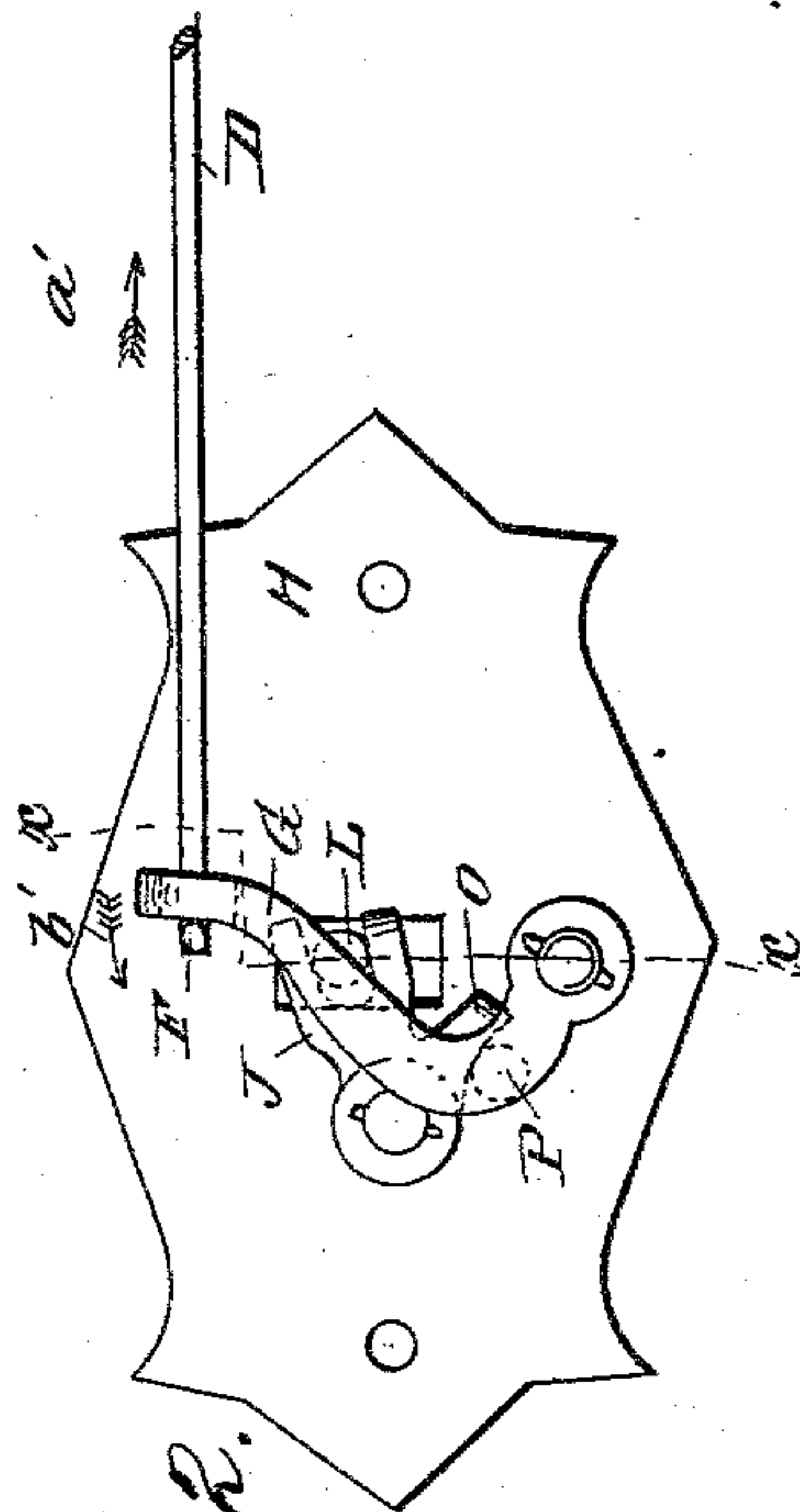
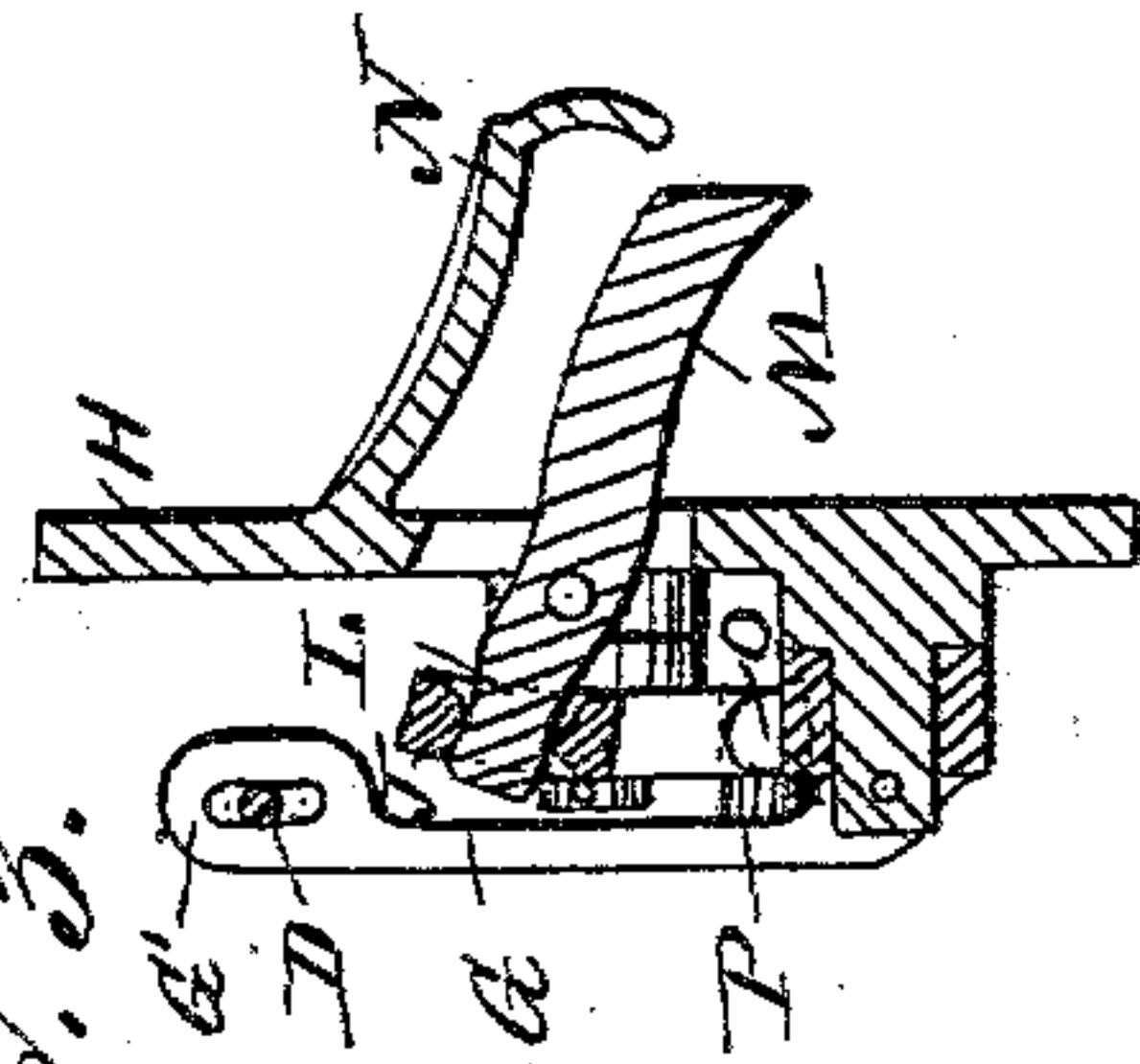
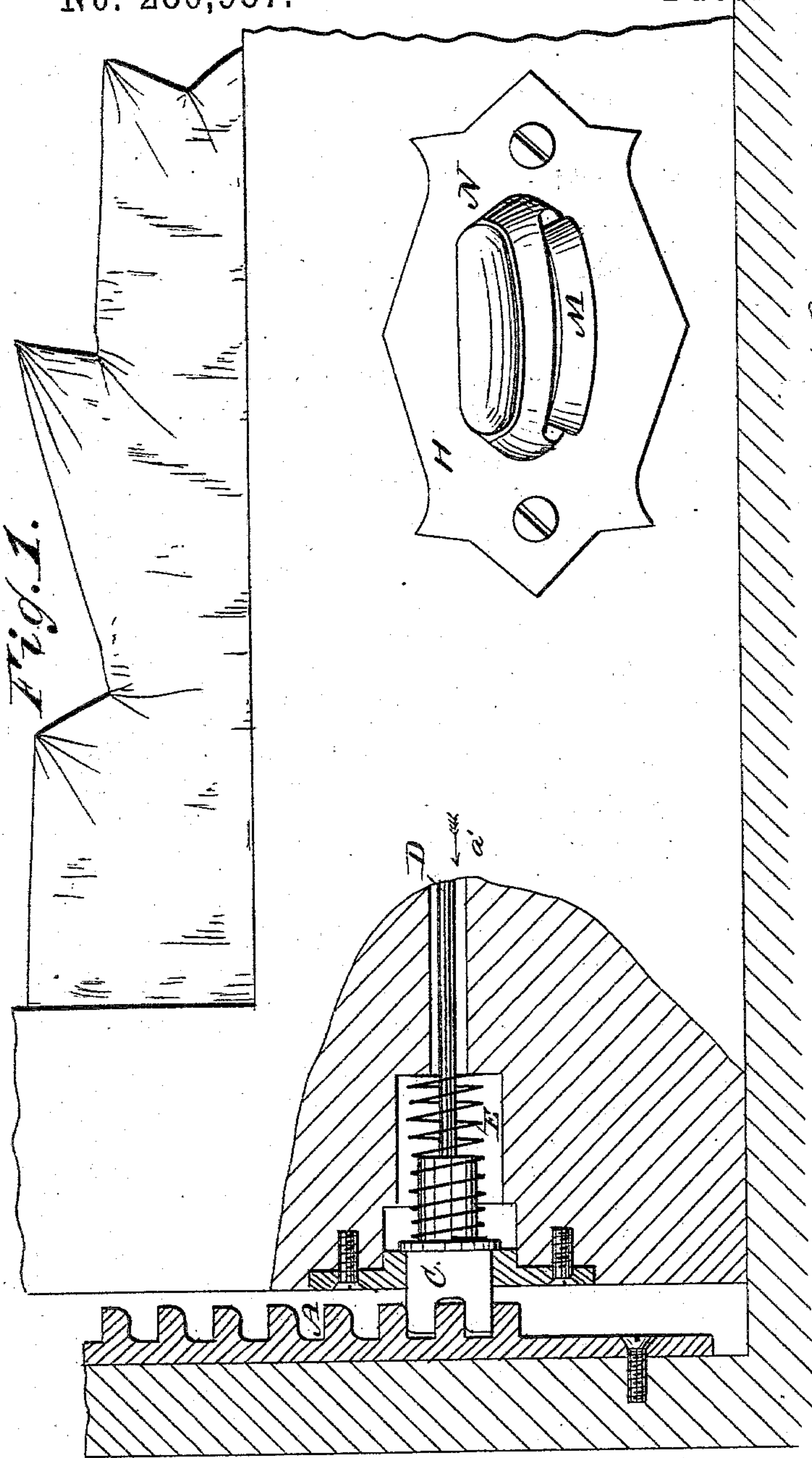
(No Model.)

W. H. WOLFRATH.

SASH FASTENER.

No. 280,987.

Patented July 10, 1883.



WITNESSES:

*Theo. G. Foster.*  
*C. Sedgwick*

INVENTOR:

*W. H. Wolfrath*

BY

*Attorneys*

ATTORNEYS.



# UNITED STATES PATENT OFFICE.

WILLIAM H. WOLFRATH, OF NEW YORK, N. Y.

## SASH-FASTENER.

SPECIFICATION forming part of Letters Patent No. 280,987, dated July 10, 1883.

Application filed December 21, 1882. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM H. WOLFRATH, of the city, county, and State of New York, have invented a new and Improved Combined Sash Lift and Fastener, of which the following is a full, clear, and exact description.

The object of my invention is to provide a new and improved combined sash-lift and sash-fastener, whereby the sash will be unlocked automatically as soon as upward pressure is applied to the lift for raising the sash, and will be locked automatically as soon as the pressure is removed from the said lift.

The invention, which is an improvement on the sash-fastener shown in Letters Patent No. 238,627, issued to me on the 8th day of March, 1882, consists in the combination, with a locking-bolt and a sash-lift, of a plate pivoted below the finger-plate of the sash-lift and connected by suitable devices with the sliding bolt, whereby if a finger is placed under the sash-lift for the purpose of raising the sash, the upward pressure on the pivoted plate of the sash-lift will cause the bolt to be withdrawn, and thus permit raising or lowering the sash. As soon as the pressure is removed from the said sash-lift a suitable spring presses the bolt outward and locks the sash in position automatically.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a longitudinal sectional elevation of my improved combined sash-lift and sash-fastener. Fig. 2 is a rear elevation of the same. Fig. 3 is a cross-sectional elevation of the same on line *x x*, Fig. 2.

A rack, A, is secured to the window-casing B in such a manner that a bolt projecting from the side edge of the sash can engage with the said rack for the purpose of locking the sash in the desired position. The bolt C is attached to a rod, D, extending longitudinally through the middle of the bottom rail of the sash, which rod D is surrounded by a spiral spring, E, which presses the bolt C from the edge of the sash. A hook, F, is formed on the inner end of the rod or wire D, and is passed through an eye or slot, G', formed in the upper or free end of an arm, G, pivoted to the rear surface of the

plate H of the sash-lift. A short fork, J, is pivoted to the back of the plate H in such a manner that it can swing in a plane parallel with the said plate H, and between the prongs of the said fork J a pintle, L, passes, which is made integral with a plate, M, pivoted in the plate H in such a manner that it can swing up and down, the said plate M being adapted to be pressed into a recess formed in the bottom of the finger-plate N, projecting from the front of the plate H. The fork J is provided with a lug, O, which is adapted to act on a pin or lug, P, projecting from the arm G in the direction toward the recess of the plate H. The plate H and its finger-plate N can be made in any suitable manner, or according to any suitable design, and has the appearance of an ordinary sash-lift, such as are usually employed on car-windows. The mechanism above described, and attached to or held on the rear surface of a plate, H, is contained in a suitable recess in the bottom rail of the sash, so that only the plate H and the plates N and M can be seen. The rod D is held on the arm G by passing the hook F through the eye G', and thus the said rod can easily be detached from or attached to the said arm.

The operation is as follows: The spring E always presses the bolt C in the direction of the arrow *a'* and against the teeth of the rack B. Thereby the pin or lug P will press upward against the lug O in the fork J, and will thus hold the prongs of the fork raised, and will also hold the pin L raised, whereby the plate M, made integral with the pin L, will be lowered and will project below the bottom of the finger-plate N on the plate H. If the sash is to be raised and a finger is placed under the plate M, the pressure of the finger will press the plate M into the recess in the finger-plate N, and thereby the pin L on the inner end of the plate M will be moved downward and will swing the fork J downward. The lug O on the fork J also moves downward and presses the pin P down, thereby swinging the upper end of the arm G in the direction of the arrow *b'*, and drawing the wire or rod D in the inverse direction of the arrow *a'*, whereby the bolt C will be withdrawn from the teeth of the rack A, and the window can be raised or lowered. As soon as the finger is removed



from under the plate M the spring E presses the rod D and the bolt C in the direction of the arrow *a'*, whereby the sash will be locked in position.

5 I do not limit myself to the device herein shown and described for transmitting the upward movement of the plate M into a longitudinal movement of the rod or wire D for the purpose of withdrawing the bolt C, but may  
10 use any other suitable device for the same purpose, as the main object of my invention is to provide a device which is connected with the lift in such a manner that the sash will be unlocked the moment that pressure is exerted  
15 from below on the lift. One or more of my improved combined sash lifts and fasteners can be provided on each sash.

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

In a combined sash lift and fastener, the 20 combination, with the sliding bolt C and the plate H, provided with a finger-plate, N, of a plate, M, pivoted in the plate H, and provided at its inner end with a pin, L, the fork J, pivoted to the plate H, and provided with 25 a lug, O, the arm G, and the rod or wire D, connecting the bolt C with the arm G, substantially as herein shown and described, and for the purpose set forth.

WILLIAM H. WOLFRATH.

Witnesses:

ERNEST KÜHNE,

BERTRAND J. HOFFACKER.