(No Model.)

O. SEELY.

SASH BALANCE.

No. 509,587. Patented Nov. 28, 1893.

Fig. 1.

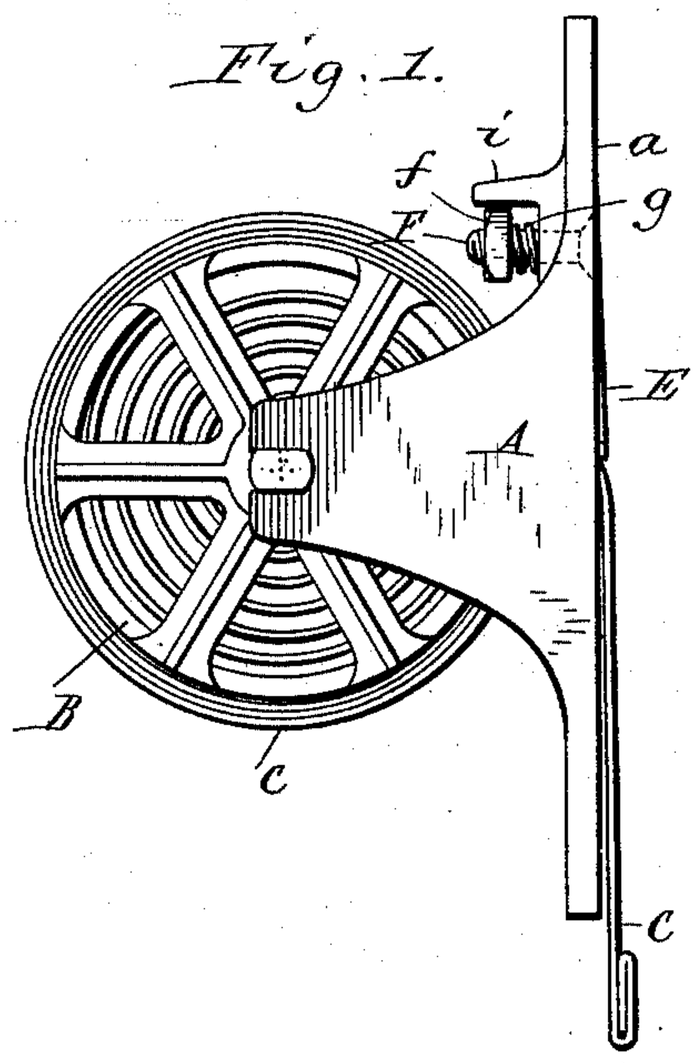


Fig. 2.

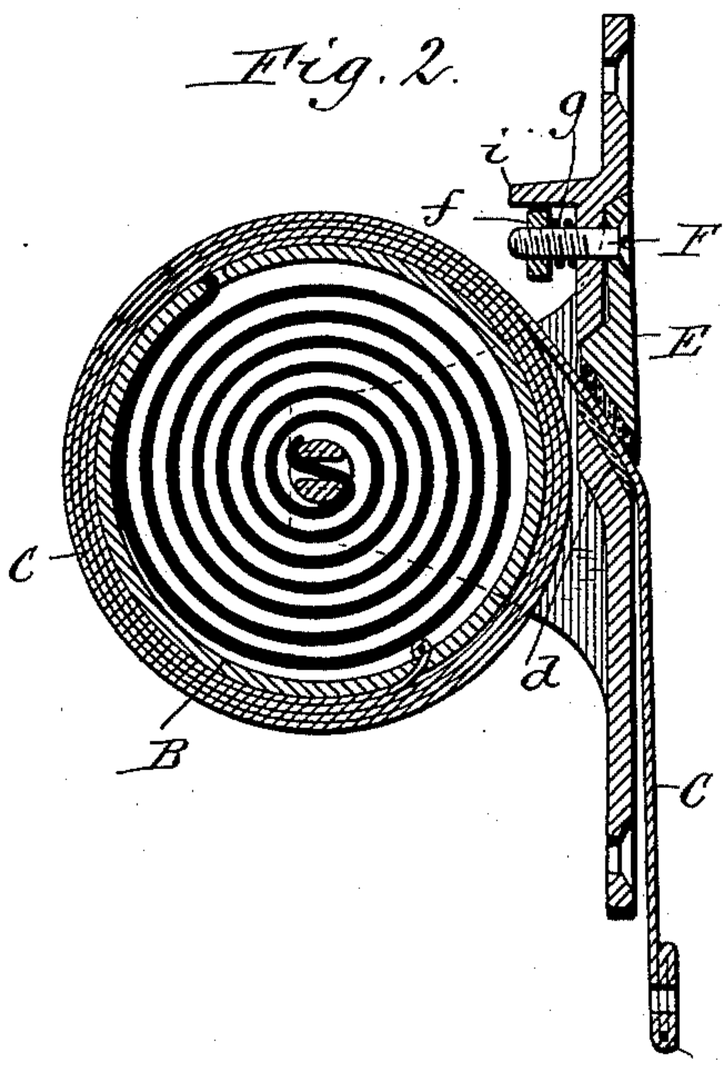


Fig. 3.

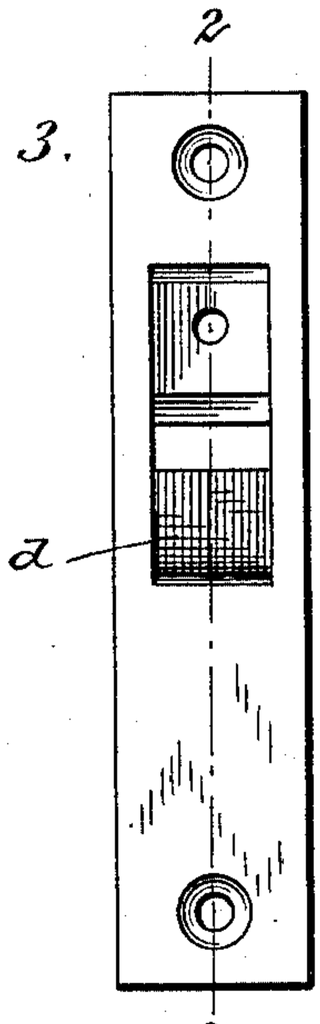
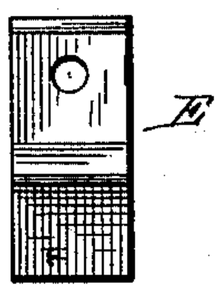


Fig. 4.



2

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SASH-BALANCE.

SPECIFICATION forming part of Letters Patent No. 509,587, dated November 28, 1893.

Application filed November 28, 1892. Serial No. 453,322. (No model.)

To all whom it may concern:

Be it known that I, OBADIAH SEELY, a citizen of the United States, residing at Syracuse, in the county of Onondaga and State of New York, have invented new and useful Improvements in Sash-Balances, of which the following is a specification.

This invention relates to that class of sash balances which contains a spring-actuated drum which is secured to the window casing, a metallic band wound upon said drum and attached to the sash and an adjustable brake which bears against the band and whereby the frictional resistance can be increased or reduced.

The object of this invention is to improve and simplify the construction of the brake and to render the same efficient and readily accessible for adjustment and repairs.

In the accompanying drawings:—Figure 1 is a side elevation of my improved sash balance. Fig. 2 is a longitudinal section thereof, the section being taken in line 2—2, Fig. 3. Fig. 3 is a front view of the casing with the brake block removed. Fig. 4 is a front view of the brake block.

Like letters of reference refer to like parts in the several figures.

A represents the casing provided with an upright face plate *a*, B the spring drum mounted in the rear portion of the casing and C the metallic band which is wound upon the drum and attached with one end to the drum and with the other to the sash. This band passes from the upper portion of the drum downwardly and forwardly through an opening in the face plate of the casing. The lower part of this opening is bounded by an inclined friction face *d* which extends upwardly and rearwardly from the front surface of the face plate and over which the band runs with its rear surface.

E represents a brake block which is arranged in the face plate and bears with its lower portion against the front surface of the band opposite the friction face of the face plate, so that the band is clamped between the brake block and the friction face. The lower rear face of the brake block is inclined upwardly and rearwardly so as to stand parallel with the friction face of the face plate. The face plate is provided with a recess in which the brake block is arranged so that the front side of the brake block is flush with the face plate.

F represents a horizontal screw bolt which passes through the upper portions of the brake block and face plate and carries a screw nut *f* at its rear end. A spring *g* is arranged between this nut and the rear side of the face plate. This spring draws the bolt and the brake block rearwardly and presses the brake block against the band and the latter against the friction face of the face plate. The screw bolt is provided at its front end with a slotted head into which a screw driver can be inserted for turning the bolt when it is desired to change the tension of the spring. The screw nut is prevented from turning with the bolt by a rearwardly projecting lip *i* formed on the face plate and fitting against the upper side of the nut. The force with which the brake block is pressed against the band is regulated by adjusting the screw bolt. The friction face of the face plate and the rear face of the brake block are preferably covered with leather or similar material. The brake block and the friction face are arranged on the front side of the face plate where both are readily accessible. This permits the brake block to be readily adjusted and to be removed when it is necessary to renew the facings of the brake block and the friction face.

I claim as my invention—

1. The combination with the drum, the band attached thereto and the supporting casing having a friction face against which the unwound portion of the band runs, of a brake block attached to the casing and bearing against the opposite side of the band, whereby the latter is pressed by the brake block against the friction face, substantially as set forth.

2. The combination with the casing having its face plate provided with an opening, the drum, and the band passing through said opening, of a brake block arranged in the

face plate and bearing with its lower portion against the front side of the band, a horizontal screw bolt passing through the upper portions of the brake block and face plate, and an adjustable spring applied to the bolt on the rear side of the face plate, substantially as set forth.

Witness my hand this 23d day of November, 1892.

OBADIAH SEELY.

Witnesses:
E. PERRY HASBROUCK,
HERBERT E. MASLIN.