(No Model.)

W. COULTER.

SASH FASTENER.

No. 470,988. Patented Mar. 15, 1892.

Fig. 1.

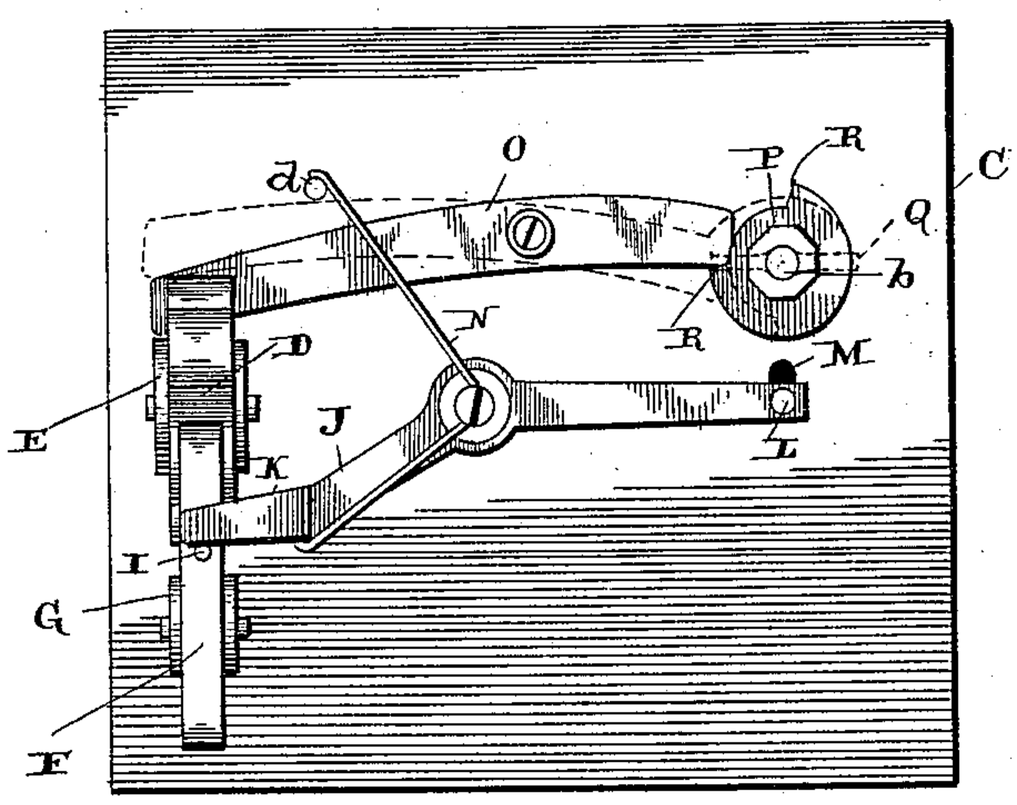
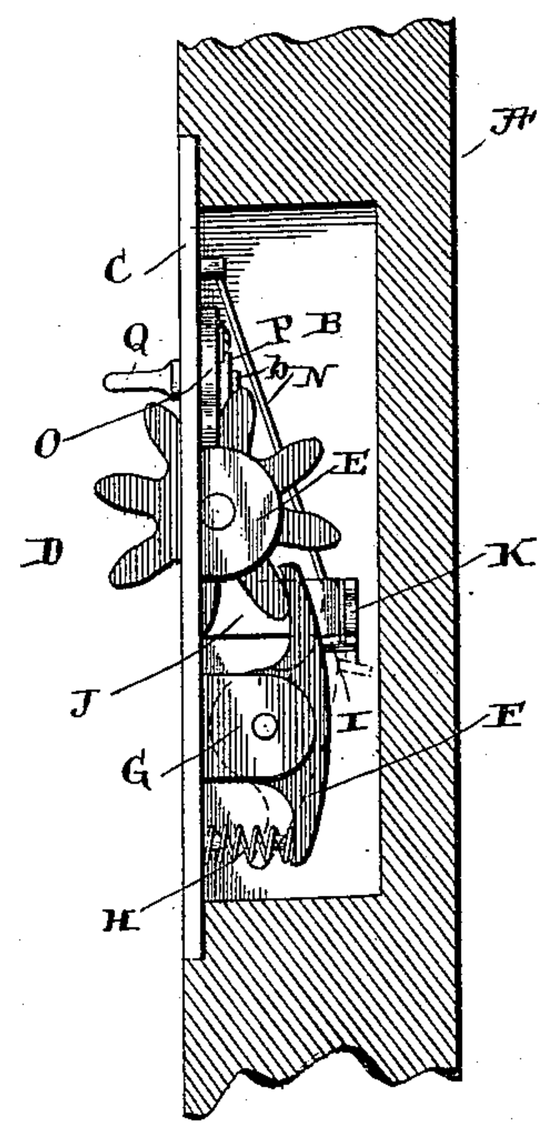


Fig. 2.



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SASH-FASTENER.

SPECIFICATION forming part of Letters Patent No. 470,988, dated March 15, 1892.

Application filed January 5, 1892. Serial No. 417,090. (No model.)

To all whom it may concern:

Be it known that I, WESLEY COULTER, of Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Sash Holders and Locks; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification.

My invention relates to improvements in sash holders and locks; and it consists in the construction, combination, and arrangement of parts, which will be fully described hereinafter, and particularly referred to in the claims.

The object of my invention is to provide a sash holder and lock which is secured to the sash and is constructed to have a cog-wheel engage a rack placed upon the window-frame, and to provide means for holding and releasing the wheel from revolving in either direction, and a means for holding the wheel against rotation in one direction, while it allows it to freely revolve in the opposite direction, whereby the window can be raised or lowered, as the case may be, and held in that position, as will be more fully described hereinafter.

In the drawings, Figure 1 is an inside elevation of a holder and lock embodying my invention. Fig. 2 is an edge view looking from the left-hand side of Fig. 1.

A indicates the side rail of a window-sash of a car-window or show-case, for which my invention is especially intended, though it can be used upon any window. Cut in this window-sash is a cavity or recess B, in which the lock is placed, as shown in Fig. 2. C is a base or bed plate of the lock, which has extending therefrom the lugs E, between which a cog-wheel D is journaled that has one edge thereof extending through a slot made in the bed-plate C. Pivoted at one side of the said wheel and in a line therewith is a pawl F, which has one end to engage the cog-wheel and the other end provided with a spring H for holding the pawl in contact with the said wheel. In this manner the wheel is allowed to revolve freely in one direction, while it is locked against rotation in the opposite direction. Hence the sash to which it is attached (if a lower sash) can be raised without touching the holder and held in any desired position by the pawl and wheel. The inner and projecting periphery of the wheel D engages a rack to be placed upon the inner side of the bead of the window-frame, as will be understood.

For the purpose of lifting the pawl from the cog-wheel D to allow the window to drop a lever J is pivoted between its ends to the said plate C and has a raised portion K, which extends over the said pawl and engages a projection I upon the upper face thereof. A handle L extends through a slot M of the plate C, and by means of this handle the lever J is operated. When the lever is raised, its raised end K engages the pin I upon the pawl F and lifts it off of the said wheel D, so that the wheel can revolve freely in either direction. This lever J is returned to position by means of a spring N, which is wrapped around the pivotal pin of the lever and has one end engage a projection *d* of the plate C and its opposite end engage the raised portion K of the lever.

By means of the above-described construction the window-sash can be freely raised and held in the desired position by the wheel and pawl, and can be lowered by operating the lever J, and thus raising the pawl from the wheel D.

For the purpose of locking the wheel D against rotation in either direction, and thus preventing the sash from being either raised or lowered, as the case may be, a lever O is pivoted to the plate C between its ends, one end of which is adapted to be forced between the cogs of the wheel D, as shown in solid lines in Fig. 1, and carried away from the wheel, as shown in dotted lines of the same figure. This lever is operated by means of a turning key Q, which has a reduced end *b* extending through a perforation made in the plate C. This reduced end is screw-threaded to receive a nut P and is angular to receive an operating cam or plate provided with the projections R. When the key Q is turned in one direction, one of the projections R engages the lever O and carries its opposite end in engagement with the cog-wheel D, and when turned in the opposite direction carries the opposite end of the lever away from the said wheel. In this manner the wheel D is locked against

rotation in either direction and the sash firmly held against movement in either direction, or the wheel is allowed to turn, as desired.

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

1. A sash-holder comprising a bed-plate having a slot, a wheel journaled to the inner side of the said plate and projecting through the slot to engage a rack, a spring-actuated pawl engaging the said wheel, a lever pivoted between its ends to the said plate, one end of the lever engaging the pawl, and a handle at the opposite end of the lever, projecting through an opening in the plate, substantially as set forth.

2. A combined sash lock and holder comprising a base-plate, a cog-wheel journaled thereon and adapted to engage a rack, a pawl engaging the said wheel, a lever for operating the pawl, a second lever pivoted between its ends, one end adapted to engage the said wheel, and a cam for engaging and operating the other end of the lever, for the purpose described, substantially as specified.

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

WESLEY COULTER.

Witnesses:
S. A. JOHNSTON,
CHAS. M. JOHNSTON.