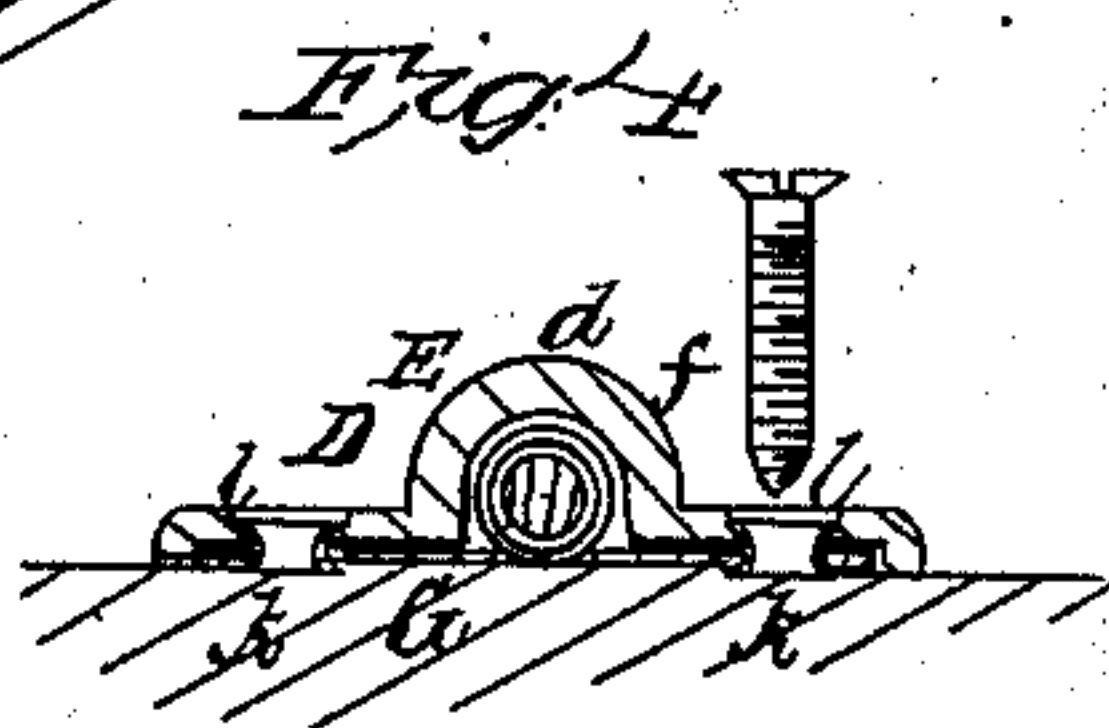
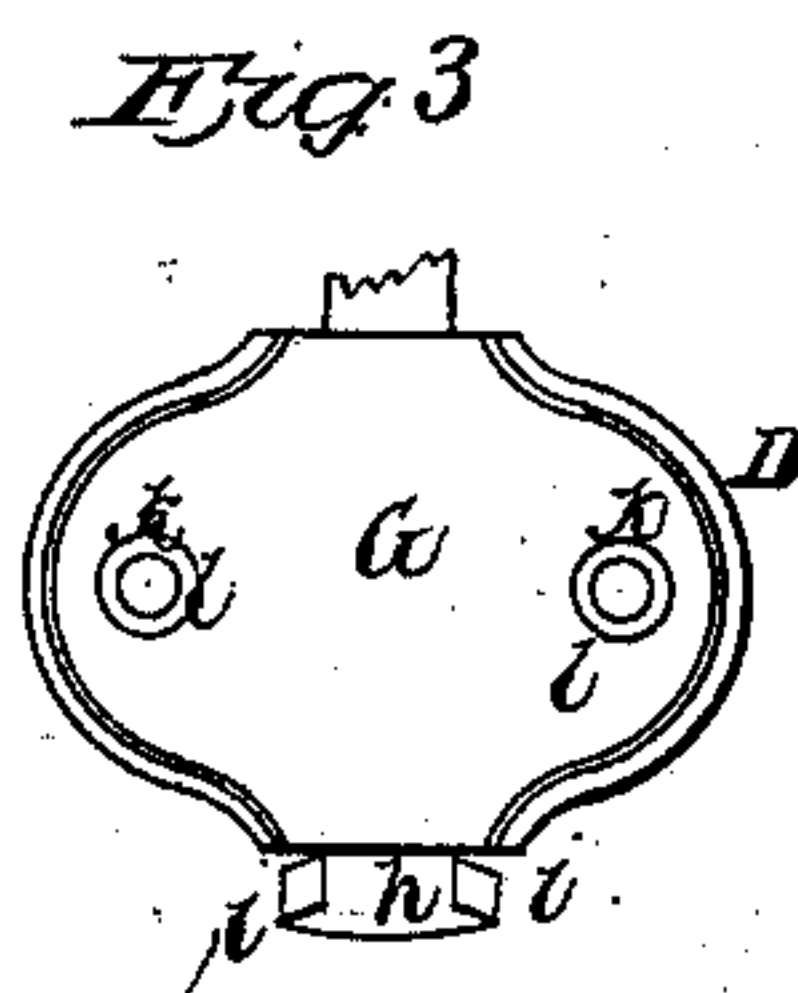
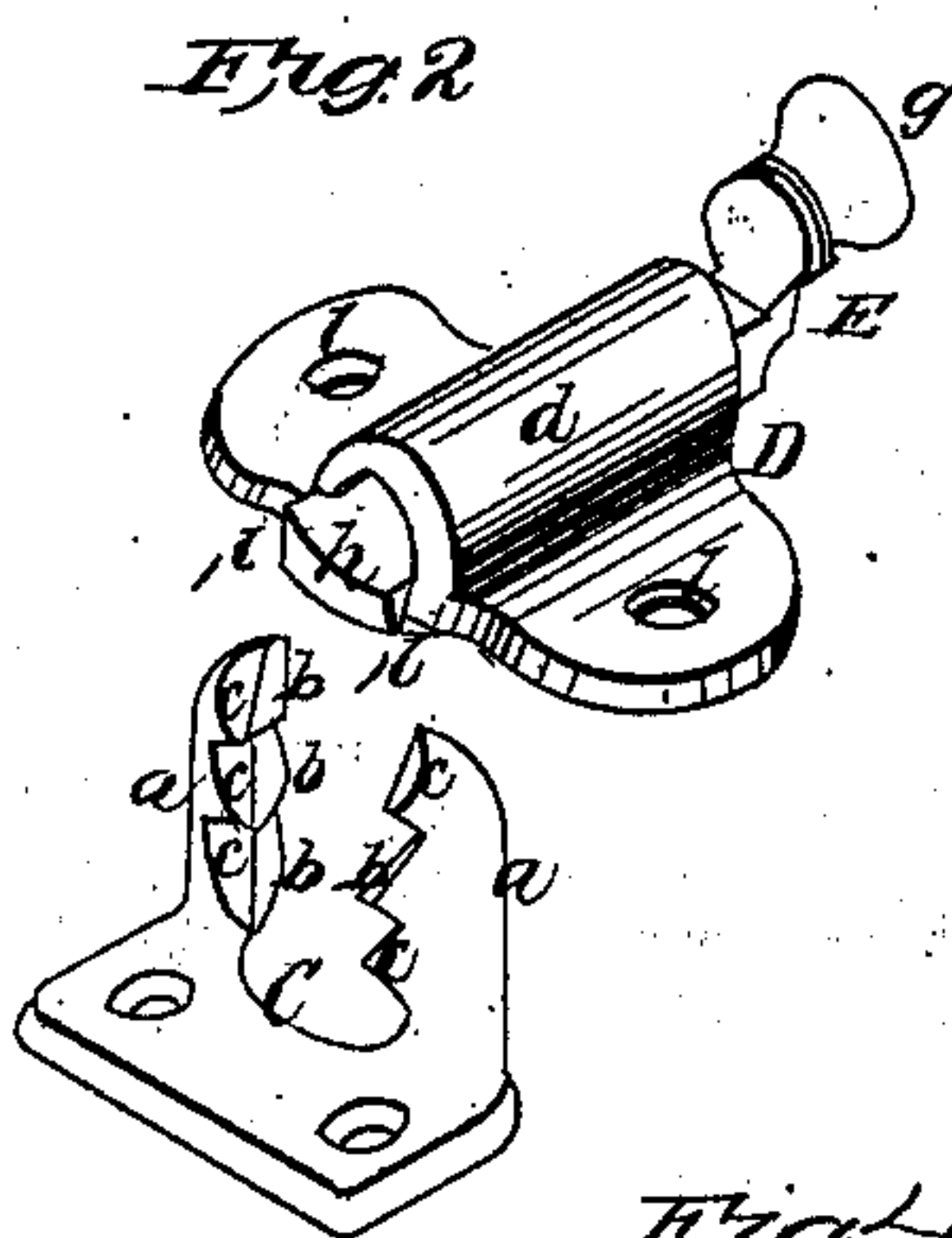
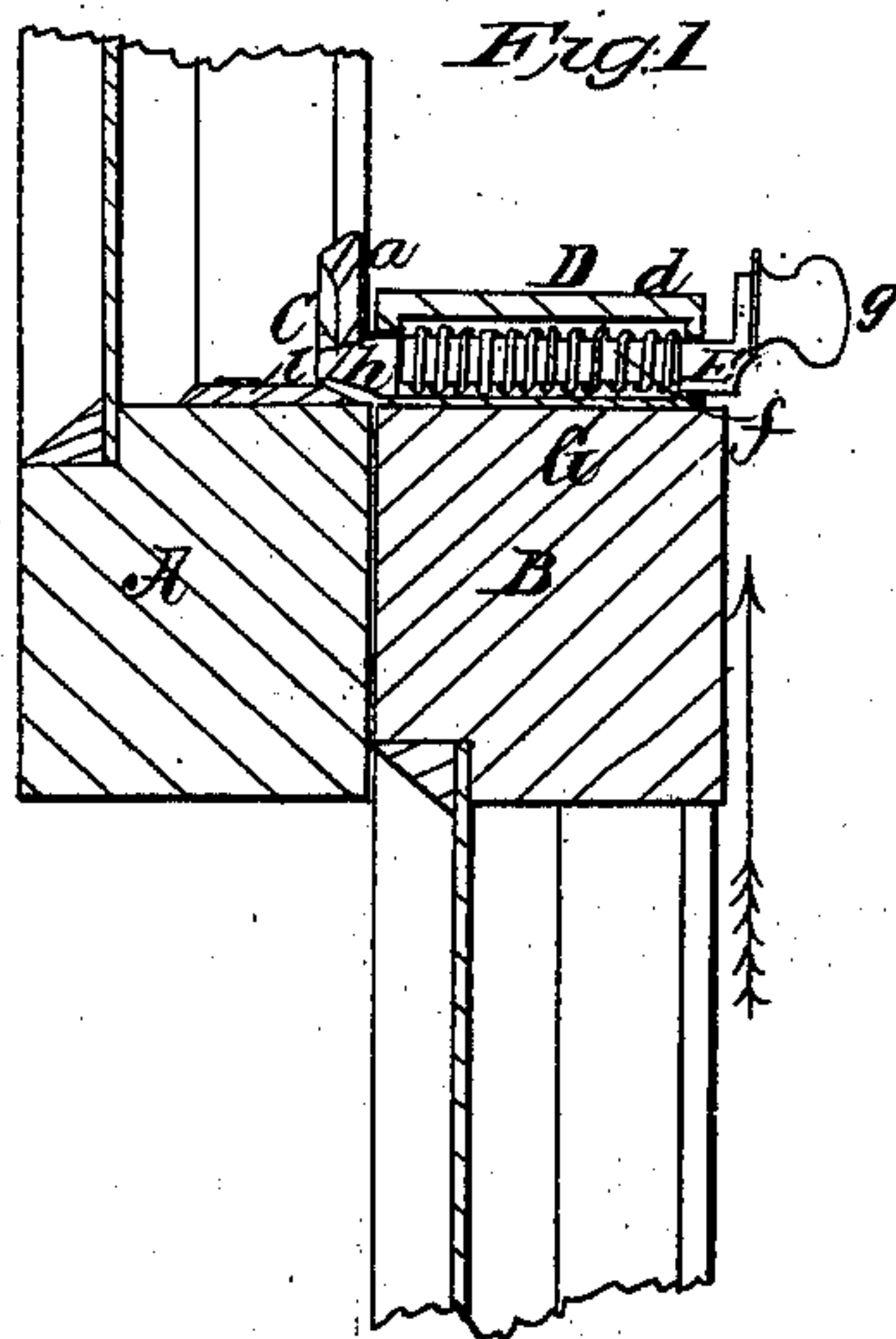


*O. S. Garretson,  
Sash Fastening.*

*No 78,274.*

*Patented May 26, 1868.*



*Witnesses:  
L. B. Dralle  
Albert Steigher*

*Inventor:  
O. S. Garretson,  
by J. Fraser & Co.  
Atty's*

# United States Patent Office.

O. S. GARRETSON, OF BUFFALO, NEW YORK.

Letters Patent No. 78,274, dated May 26, 1868.

## IMPROVEMENT IN WINDOW-SASH FASTENING.

The Schedule referred to in these Letters Patent and making part of the same.

### TO ALL WHOM IT MAY CONCERN:

Be it known that I, O. S. GARRETSON, of Buffalo, in the county of Erie, and State of New York, have invented a certain new and useful Improvement in Sash-Locks; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, making part of this specification.

Figure 1 is a vertical cross-section of the meeting-rails of an upper and lower sash provided with my improved lock.

Figure 2, a perspective view of the lock in detail.

Figure 3, a bottom view of the bolt-case.

Figure 4, a cross-section of fig. 3.

Like letters of reference indicate corresponding parts in all the figures.

My improvement belongs to that class in which the lock is applied to the meeting-rails of the sash for the purpose of drawing the two closely together, and preventing the window from being opened from the outside.

The invention consists in a bolt and catch of peculiar construction, and so arranged as to be self-locking, and to engage, even if the sash does not shut entirely down, and to hold the rails closely together, to exclude wind and prevent rattling.

It further consists in the method of securing the bottom plate to the bolt-case by eyelets or hollow rivets which attach in the ordinary screw-holes.

As represented in the drawings, A B are the meeting-rails of an upper and lower sash. On the upper rail is attached a catch, C, having vertical jaws or branches *a a*, separated at such a distance apart as is necessary to allow the bolt to pass through between. These branches are provided with series of teeth or ratchets *b b*, whose rear sides are inclined inward and backward, as clearly indicated at *c c*, fig. 2.

On the top of the lower sash-rail is screwed a case, D, which contains the bolt E. This bolt is situated in a chamber, *d*, of the case, and is pressed forward by a coiled spring, *f*, which encircles it. At its outer end it has a knob, *g*, by which it is operated, and at the inner end a head, *h*, with side flanges *i i*, which are made wedging downward and outward, as clearly indicated in figs. 2 and 3.

The operation will be readily understood. When the rails meet, the wedging sides of the head *h* strike over the inclines *c* of the catch, and, the spring yielding, allows the head to engage with the teeth, so as to produce a perfect lock, when the parts cannot be separated without pressing in on the bolt.

I secure several very important advantages by this arrangement.

First, the device is self-locking, which is not the case with ordinary locks applied to the meeting-rails.

Second, the series of teeth *b b*, one above another, insures the locking of the device, even if the lower sash does not shut quite down. It is frequently the case that snow and ice collect on the sill under the sash. In such case an ordinary lock or bolt attached to the meeting-rail will not connect. My device also allows the lock to engage if the sash do not stand quite square.

Third, this lock, by the action of the spring, draws the two rails together, and effectually excludes wind and prevents rattling.

I employ a plate, G, fitting into the bottom of the bolt-case, resting on the rail, in order to prevent wear of the wood by the bolt, and to hold the latter firmly in place. To secure this plate to the case, I simply employ eyelets or hollow rivets *k k*, which are bedded in the ordinary screw-holes *l l*, through which pass the screws that attach the case to the wood. This is a very simple and effective method of connection, and avoids the making of additional holes in the plate, and the use of rivets or extra screws.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. The combination of the bolt E, provided with the wedge-head *h*, and the catch C, provided with teeth, or a series of teeth, *b*, operating in the manner and for the purpose substantially as herein set forth.

2. Securing the plate G to the case D, by eyelets or hollow rivets *k*, attaching in the ordinary screw-holes *l*, as herein set forth.

In witness whereof, I have hereunto signed my name in the presence of two subscribing witnesses.

Witnesses:

JAY HYATT,

ALBERT HAIGHT.

O. S. GARRETSON.