W. WILSON.

Fastener for Meeting-Rails of Sashes.

No. 220,046. Patented Sept. 30, 1879.

Fig. 1.

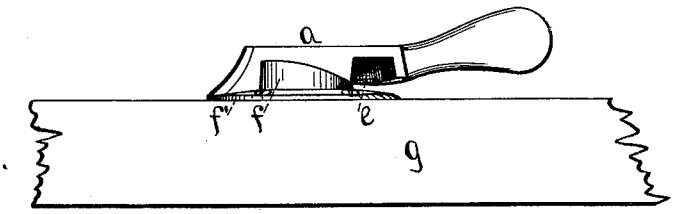


Fig. 2.

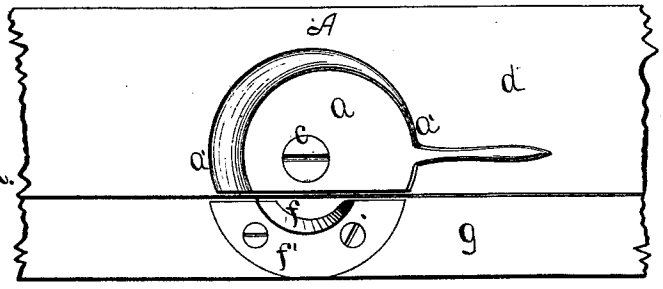


Fig. 3.

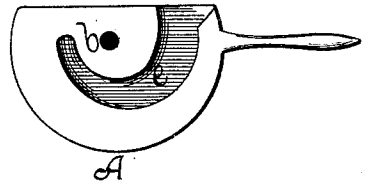
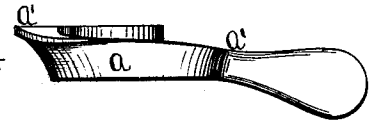


Fig. 4



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UNITED STATES PATENT OFFICE.

WILLIAM WILSON, OF HARTFORD, CONNECTICUT.

IMPROVEMENT IN FASTENERS FOR MEETING-RAILS OF SASHES.

Specification forming part of Letters Patent No. **220,046**, dated September 30, 1879; application filed January 24, 1879.

To all whom it may concern:

Be it known that I, WILLIAM WILSON, of Hartford, in the county of Hartford and State of Connecticut, have invented certain new and useful Improvements pertaining to Window-Sash Fasteners, whereof the following is a specification, reference being had to the accompanying drawings, where—

Figure 1 is a front view of a portion of a window, more particularly of a portion of the meeting-rails of the sashes, with my improved fastener attached. The fastener is in the position or adjustment of unlocked. Fig. 2 is a view of the same from above. Fig. 3 is a view of the under side of the rotary cam-disk forming part of the fastener. Fig. 4 is a side or edge view of the same cam-disk from the side denoted by the letter A, Fig. 3.

The purpose for which this device is designed is sufficiently indicated by the name hereinbefore given to it. Its points of combined advantage are, first, it, in passing to the position of locked, draws the sashes closely together; second, it forces the upper sash upward and the lower sash downward, each snugly to its seat; third, it cannot be opened by the insertion of a blade or the like between the sashes.

The letter *a* denotes a parti-circular cam-disk, with a central pivot-hole, *b*, through which a screw, *c*, runs, whereby to attach it to the sash *d*, the disk being rotary on the screw. This disk is furnished on the under side with the eccentric cam-groove *e*.

A lug, *f*, is attached, by a base-flange, *f'*, to the sash *g*, the lug being preferably of a parti-circular form, as shown in the drawings.

In passing the cam-disk to the locked position the cam-groove *e* engages with the lug *f*, and, by its eccentricity, gradually draws the sashes closer and closer together.

Outside the cam-groove *e* the under surface of the disk *a* is formed into a spirally-inclined plane, *a' a'*, which, as the disk passes to the locked position, acts upon the base flange *f'* with a constantly-increasing pressure, forcing the upper sash upward and the lower sash downward, each snugly to its seat in the window-frame.

The disk or plate shape of the piece *a* prevents it from being rotated by a blade inserted between the sashes, as is practicable with the common lever-fasteners.

It is obvious that the inclined plane may be elsewhere located—as, for instance, at the bottom of groove *e*, and in that case act on the top of lug *f*, or on the upper face of base-flange *f'*; and these and other modifications are within the scope of my invention.

I am aware that sash-fasteners have been made with a swinging lever having a concentric hub, in which there is an eccentric groove, for the purpose of keeping the sashes tightly closed by drawing them together, the groove taking hold of a properly-arranged lug or keeper; but such a device alone I do not claim; but

I do claim as my invention—

1. The rotary disk *a*, having the spirally-inclined plane *a' a'*, in combination with the base-plate *f'*, combined and arranged substantially as set forth, and for the purpose described.

2. The rotary disk *a*, provided with the groove *e* and the inclined plane *a' a'*, when combined with the lug *f*, all substantially as described.

WILLIAM WILSON.

Witnesses:
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