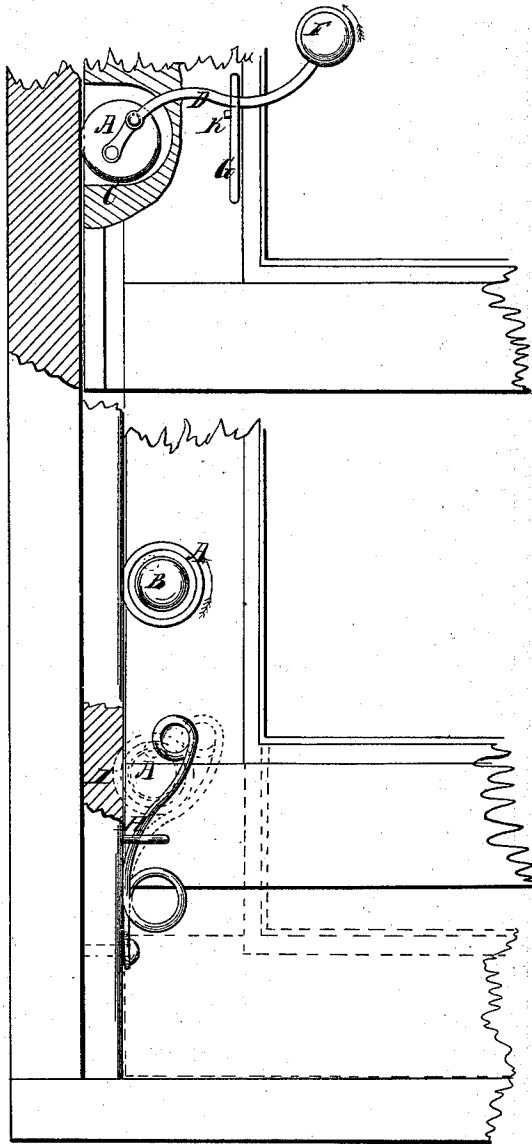


Z. B. Wakeman,

Sash Holder.

N^o 60,293.

Patented Dec. 4, 1866.



Witnesses:
Jos. A. Sewell
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IMPROVED WINDOW SASH FASTENER.

Z. B. WAKEMAN, OF ROCKFORD, ILLINOIS.

Letters Patent No. 60,293, dated December 4, 1866.

SPECIFICATION.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, Z. B. WAKEMAN, of Rockford, in the county of Winnebago, and State of Illinois, have invented a new and Improved "Sash Supporter;" and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming a part of this specification.

This invention relates to an improved sash supporter by which simplicity, durability, and cheapness together with convenience and facility of operation are secured, and it consists in an adjustable, self-operating eccentric roller, composed of india rubber, gutta percha, or any of their respective elastic or flexible compounds, or of any other suitable elastic or flexible material, which roller is so hung or attached to the stile of a window sash, that when the roller hangs on its bearings and the sash is being raised, the roller will not obstruct the same in the least, but the instant the hand is removed from the sash it will be so operated or turned as to firmly bind against the side of the window frame, and thus securely hold the sash at the height or point to which it was raised, whether more or less, while at the same time, when so desired, by properly relieving the roller from its bearing against the window frame, the sash can be then lowered and closed at pleasure, as will be apparent from the following detail description of the supporter, and the mode of arranging the same upon the sash, reference being had to the figure of the accompanying plate of drawings, in which the upper and lower sashes of a window frame, are shown with my improved sash supporter applied to both of the same.

A in the drawings is a round roller or wheel made of wood, metal, or any other suitable material of an inch or more or less in diameter, and covered around its periphery or edge with rubber, gutta percha, or any of their respective elastic or flexible compounds, or with any other suitable flexible or elastic material, in and through the centre of this roller a small hole is made to receive a screw for securing a knob B to it. Another aperture is also made in and through the roller, half way or nearly so from its centre to its outer edge or periphery, which aperture, if the roller is made of wood or entirely of rubber, should be suitably bushed with brass or other metal. Through this eccentric aperture of the roller a screw is loosely passed screwing into the stile of the sash, the outer end of its bushing being countersunk, so that the head of such screw can come flush or sufficiently so with the outer face of the roller. A metallic plate is then placed on the outer face of the roller, and the knob B then secured to it by screwing its screw, shaft, or spindle into the centre aperture of the roller. If the roller A is made of porcelain, earthenware or metal, I deem it best to mould both it and its knob in one and the same piece, with a suitable aperture through it to receive the screw by which the roller is to be hung to the sash-stile, the edge of the roller being then covered with rubber or its equivalent, as before explained. And, furthermore, if the roller is made of metal it might be desirable in some cases to plate its outer face or surfaces as well, also, as the knob, with silver or gold, and use the white rubber, so known, for a covering to its edge; this mode of manufacture producing a highly ornamental and beautiful finish to the same. The body of the roller may be also made of coiled wire with the ends of the wire on each side turned in, in the form of an eye to receive the screw for fastening it to the sash stile, and then an ornamented knob secured to the proper side of it, and the periphery of the coil covered with rubber. If the rollers are made of soled rubber it would be best to make the end of the knob which bears against it, sufficiently large to cover the screw-head, by which the roller is fastened to the sash, thus dispensing with the metallic covering plate therefor. In applying the eccentric roller, A, to the upper sash, I mortise or cut a cavity, C, in the back of its stile, in which cavity I then place and secure the rollers by means of a screw passing through its eccentric aperture, with the rubber edge or periphery against the window frame; to the roller, I then hang a bent lever arm, D, having a knob, F, at its outer end in such a manner, that by raising it the roller can be relieved from the window frame, thus leaving the sash free to fall when removing the hand from the said knob, the eccentric roller then comes to a close or firm bearing against the window frame securely holding the sash in such position, whether at a greater or less height, as is obvious by an inspection of the drawings without any further explanation.

It is not necessary to touch the lever-arm, D, when the sash is being raised, as the roller then offers no obstruction to the passage or sliding of the same. The knob at the end of the lever-arm D may be made of any desired style or shape, and in order to prevent injury to the said lever, I attach to the sash-stile, a long staple or guide, G, under which the lever plays or moves, and by the side of this guide I also insert a small bolt or rest-pin, K, for the lever, the object of this arrangement being two-fold, viz: first, to allow sufficient movement or play to the lever-arm to properly operate the eccentric roller; and second, to prevent any possible injury to

or displacement of the roller or the bending of the lever. In applying the eccentric roller to the lower sash the lever-arm is dispensed with, a knob being attached directly to it, and a helical shaped spring, H, also used upon the window frame for firmly holding the roller to it when the sash is closed, in order to prevent its being raised, thus operating as a fastening to the sash, between which spring and the window frame the roller is interlocked; a suitable shaped cavity or depression, I, being made in the said frame to receive the edge of the roller, and thus render its fastening by the said spring more reliable, as plainly seen by an inspection of the drawings.

Among the many advantages secured by my improved sash supporter herein above described, may be here mentioned its simplicity, ease, and convenience of operation; the sashes having it applied to them moving as easy as though they were not applied, while at the same time the supporters are ever ready to act upon the window frame the instant the hand is relieved from the sash, holding it firm at whatever height it may have been raised or lowered.

I do not claim an eccentric roller as new in itself, but what I claim as new, and desire to secure by Letters Patent, is—

I claim the combination of the roller lever-arm D, secured to it, fixed staple or guide G, and stop or rest-pin K, when arranged together as and for the purpose described.

The above specification of my invention signed by me this 23d day of January, 1866.

Z. B. WAKEMAN.

Witnesses:

SILAS G. TYLER,
E. WILL.