

J. F. BJURLUND.
SASH HOLDER.
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983,475.

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Fig. 1.

Fig. 2.

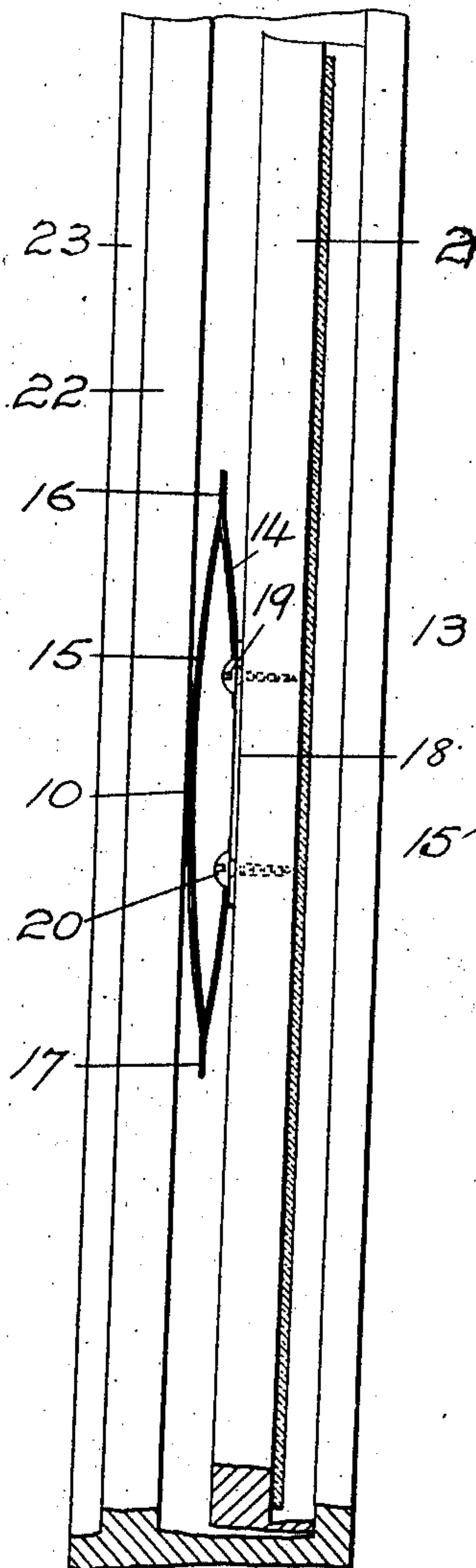
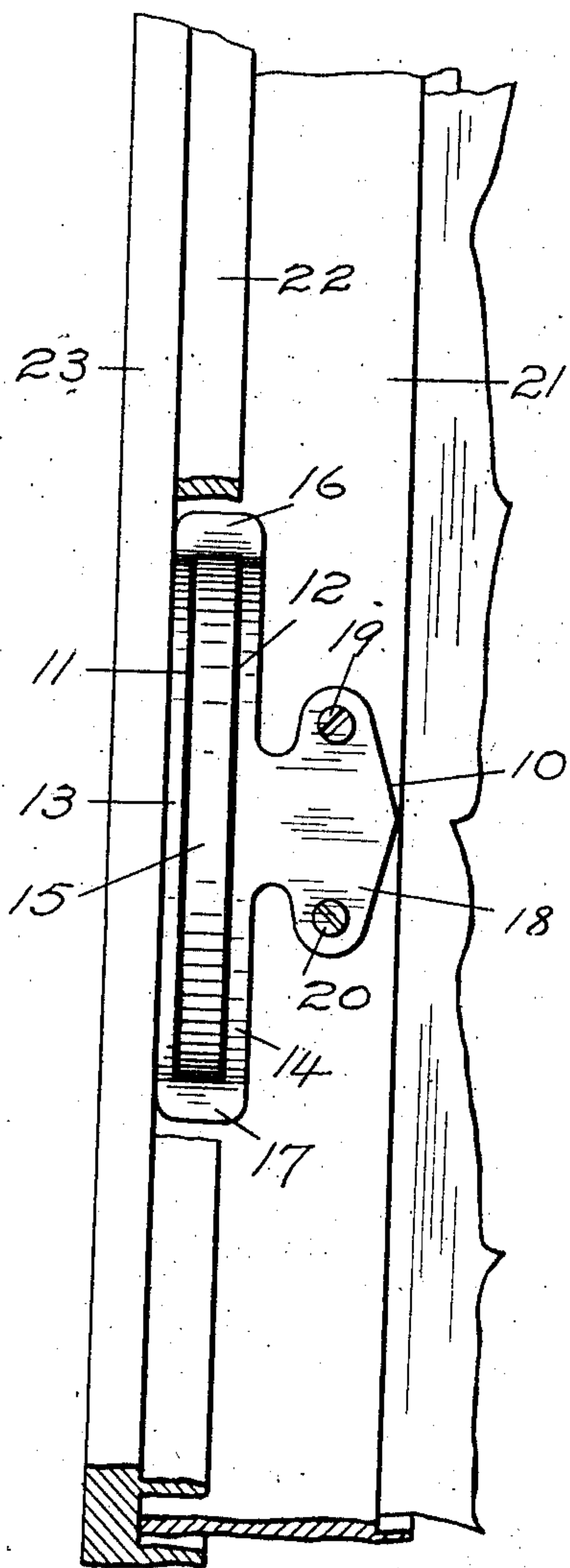
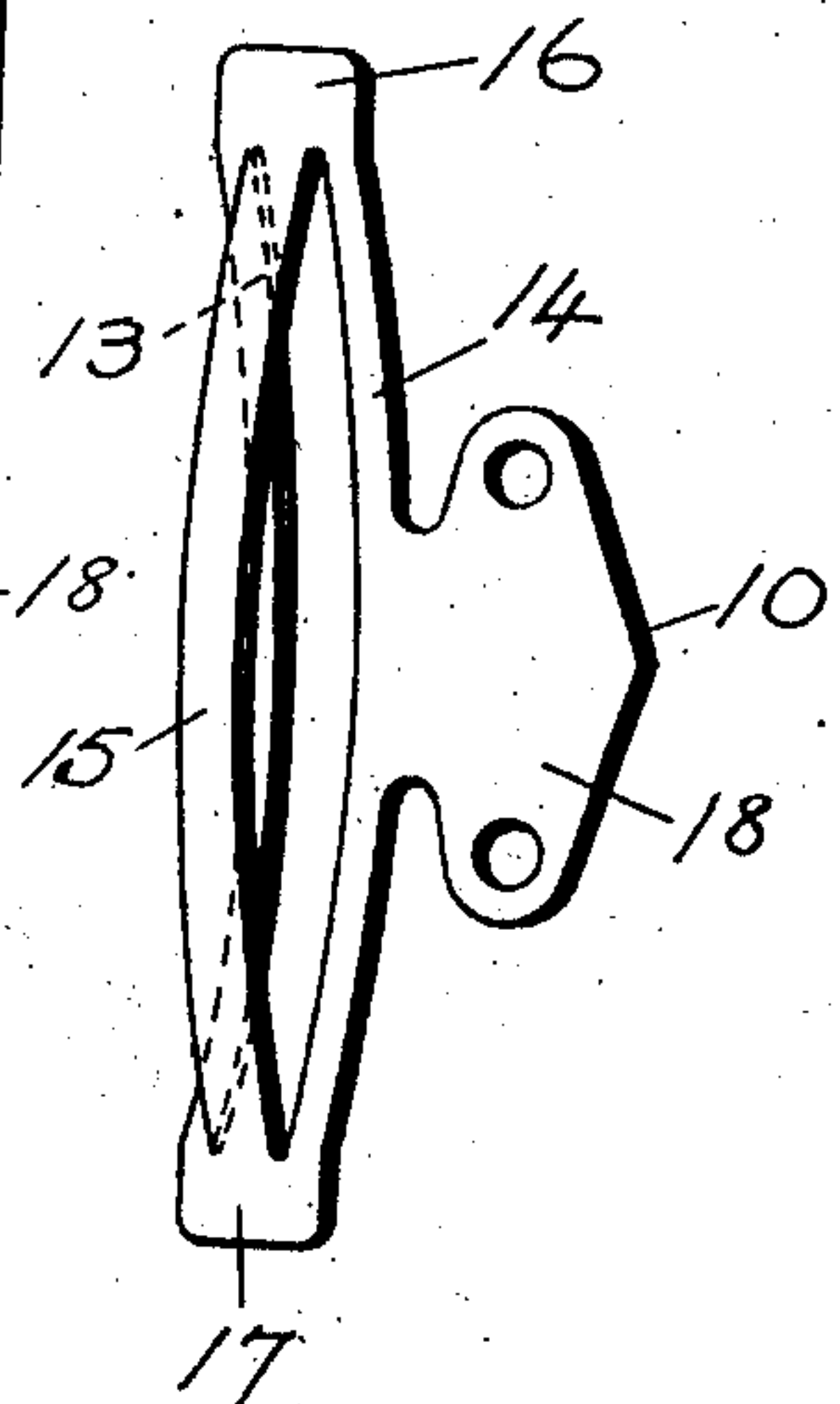


Fig. 3.



Witnesses:
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UNITED STATES PATENT OFFICE.

JOHAN F. BJURLUND, OF NEW YORK, N. Y.

SASH-HOLDER.

983,475.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, JOHAN F. BJURLUND, a citizen of the United States, and a resident of New York, borough of Queens, county of Queens, and State of New York, have invented certain new and useful Improvements in Sash-Holders, of which the following is a full, clear, and exact specification.

This invention relates more particularly to a holder or spring adapted for use in conjunction with a window sash for preventing the window from rattling, and is an improvement on my sash holder for which I did obtain a Patent, No. 516,173, dated March 6, 1894. In said former sash holder I employed an elliptic spring formed from a single sheet of metal which is centrally slitted to provide two members having integral opposed ends and are laterally offsetted on different relative planes. When in use one of said members is seated upon a surface of the frame of the window and the other member is adapted to engage a surface of the stop of the stile of the sash frame. By this formation the strain is directed upon the member bearing against the stop of the window frame in a manner serving to force the other member from its connections with the stile of the sash or the integral ends soon became so weakened as to cause the members to break apart and destroying the usefulness of said spring.

My present invention is designed to overcome these objections and has for its object to provide a sash holder or spring adapted to retain the sash firmly in its frame to prevent rattling when raised or lowered and to accomplish this I provide a form of sash holder comprising mainly three members two members of which are arranged in parallel relation on the same plane. The third member is formed midway therebetween, and disposed on a different plane relatively to the first two members so as to receive the bearing direct when the spring is in use and by which the force of pressure is evenly distributed upon the two first members, thus greatly adding to the durability and efficiency of said spring.

A further object of the invention is to provide simple and efficient means adapted to fasten said members to the sash of a window.

A practical embodiment of the invention is represented in the accompanying drawing forming a part of this specification in

which similar characters of reference indicate corresponding parts in all the views, the said invention being more fully described hereinafter and then pointed out in the appended claim.

In the drawing, Figure 1 is a front view of part of a window frame stile with my improved sash holder applied thereto, part of the sash stop being broken away. Fig. 2 is a side elevation of the sash stile and stop with my sash holder in position when in use, and Fig. 3 is a perspective view of the sash holder.

In practice my sash holder 10 is preferably made of a single piece of plate spring metal, or other suitable material, so as to consist of integrally formed parts, but it is to be understood that one or more of said parts may be separately provided and connected in any suitable manner to the other parts in order to meet required occasions.

When the sash holder 10 is formed of integral parts, as illustrated in the drawing, two longitudinal incisions or slits 11 and 12 are formed in the material of which said holder is made, and said slits are disposed in parallel relation whereby a middle strip and two marginal strips or members 13, 14 and 15 are provided. The member 15 is set upward on a different relative plane from the two members 13 and 14 in the form of an ellipsis or substantially a diamond shape, as shown in Figs. 2 and 3 thereby leaving the ends 16 and 17 intact. As a means whereby said members may be rigidly held to the sash of a window I provide upon the member 14, a holding plate 18 having one or more apertures therein for reception of screws or pins, as 19 and 20, Figs. 1 and 2. The members 13 and 15 are formed so that the combined widths thereof will be of approximately the same width as the stop of the frame of a window.

When the sash holder 10 is applied to a window the holding plate 18 is fastened by screws 19 and 20, or the like, to the stile 21 of the window sash, and the members 13 and 14 are directed so as to be seated upon the same surface of said stile. The member 15 will thereby be positioned so that the central point of the curvature thereof will engage the opposed surface of the stop 22 of the window frame 23 so that when the spring is compressed, as shown in Fig. 2, for holding the window in a raised position the member 15 will receive the bearing centrally

thereof and from which the force of pressure will be distributed through the integral ends 16 and 17 evenly upon the members or marginal strips 13 and 14. By this arrangement it is evident that instead of the force of pressure upon the spring having a tendency to rip the holding plate 18 apart from its connections to the stile of a sash the formation of the members 13 and 14 and manner of seating said members upon the same surface of the stile serves to retain the holding plate 18 against displacement, thereby greatly prolonging the durability of my device.

It is to be understood that changes may be made in the forms and proportions of the parts of my sash holder, and that the same may be made of any preferred material without departing from the scope and spirit of the invention, therefore I do not wish to be limited to the particular form of sash holder herein described and shown.

Having thus described my invention, I

claim as new and desire to secure by Letters Patent:

A sash holder of the character described, comprising a holding plate adapted to be fastened upon the stile of a window sash, a member having its central part provided upon one part of the holding plate, a second member spaced apart in parallel relation from the first member, and a third member disposed intermediate thereof and having its opposed ends held to the respective opposed ends of the first and second members, the first and second members being curved and disposed upon the same plane and the third member being oppositely curved so as to form with the first two members the shape of substantially a diamond.

This specification signed and witnessed this twenty sixth day of August A. D. 1910.

JOHAN F. BJURLUND.

Witnesses:

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