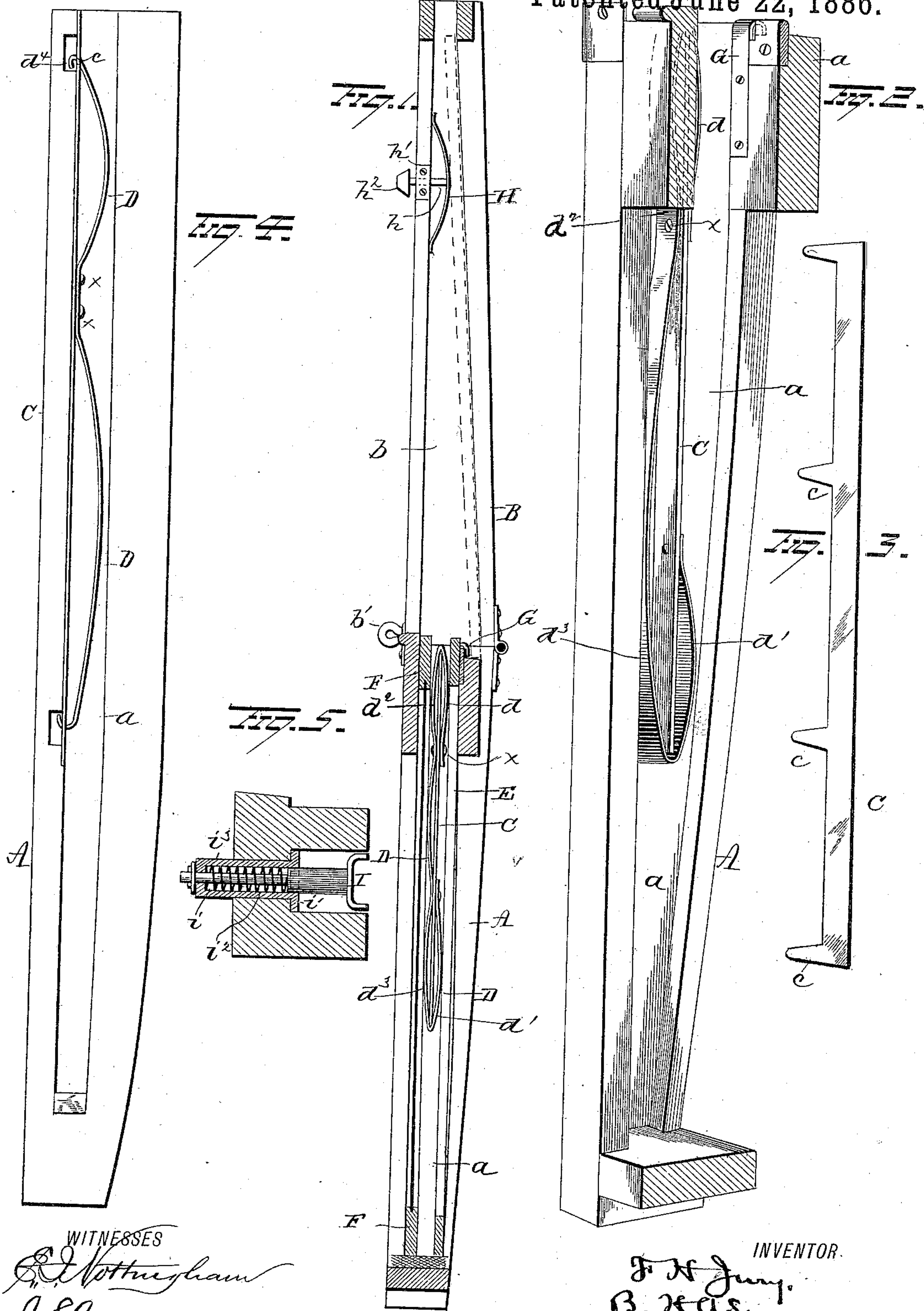


F. H. JURY.
SASH HOLDER.

No. 343,997.

Patented June 22, 1886.



~~WITNESSES~~

INVENTOR

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UNITED STATES PATENT OFFICE.

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SASH-HOLDER.

SPECIFICATION forming part of Letters Patent No. 343,997, dated June 22, 1886.

Application filed April 2, 1886. Serial No. 197,563. (No model.)

To all whom it may concern:

Be it known that I, F. HERRMAN JURY, of New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Window Sash and Shutter Holders; 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 appertains to make and use the same.

My invention relates to the window sashes and shutters of broughams, landaus, landaulets, and all kinds of rockaways; and the object of my invention is to prevent looseness and rattling of the windows and shutters, and to securely hold the same when wholly or partially raised or lowered.

To the above purposes my invention consists in certain peculiar and novel features of construction and arrangement, as hereinafter described and claimed.

As heretofore constructed, the window and shutter frames of this class of vehicles have been provided with a division-piece, which serves to guide and separate the window and shutter, but which involves an objectionable amount of wear upon the parts.

By virtue of my invention, as will be seen from the ensuing description, this division-strip is dispensed with, and the window and shutter are guided and held properly without unnecessary wear. It will also be seen that my invention meets the requirements of vehicles in which no shutter is used, the window-sash being in such cases also properly guided and held against rattling and in any required position of adjustment.

In order that my invention may be fully understood, I will proceed to describe it with reference to the accompanying drawings, in which—

Figure 1 is a transverse vertical section of a window and shutter frame with my improvements applied thereto. Fig. 2 is a view in perspective of a frame embodying my invention. Fig. 3 is a detached view of the metal strip for carrying the holding-spring. Figs. 4 and 5 are details, to be hereinafter referred to.

In the said drawings, A B designate the two sections of the window and shutter frame of a vehicle of the kind hereinbefore referred to. The lower section, A, is located in the frame

of the vehicle-door, and the upper section, B, is hinged at its lower end to the upper end of section A.

Upon the inner side of each upright section of frame A is formed a groove, *a*, while a similar groove, *b*, is formed in the upper section, B. The upper section, B, may be secured in upright position by pins *b'*, as shown.

C designates a metal bar having a number of marginal teats or teeth, *c*, which are driven into the sides of section A, so as to secure said strip in vertical position in the center of the upper end of each groove *a*, as shown. To this bar C is secured a spring-strip, D, which is turned over each end of bar C and riveted at its ends thereto, so as to form the bowed portions *d d'* contiguous to the upper and lower ends of said bar. The rivets *x* pass through said strips, and secure them to the opposite sides of bar C, so as to form the bowed sections *d² d³*, as shown. The bowed sections *d d'* lie upon the outer side of bar C and press against the inner side of shutter-frame E when the latter is lowered, as shown in full lines, while the bowed sections *d² d³* lie upon the inner side of window-sash F when lowered, as shown also in full lines.

At the upper end of the section A are secured two spring-strips, G, the upper ends of which are bent over the shutter-sill *a'*, and which press against the lower end of the shutter-frame when raised, as shown in dotted lines.

When the shutter-frame E or window-sash F is raised, as indicated in dotted lines, they are held by spring-strips H, one of which is set against each upper inner margin of groove *b*. Each of these strips H is provided with a pin, *h*, extending through a housing, *h'*, set in the section B and forced outward by a spring, H, the inner end of said pin terminating in a knob, *h²*, which is exposed to the interior of the vehicle. Thus it will be seen that when the shutter or window is either wholly or partially raised or lowered it is held by the springs D H against rattling, and that while being raised or lowered the shutter or window is properly guided by spring D without necessitating any springing or bending of the frames E or F, as is the case when division-pieces are used to guide the frames.

In Fig. 4 I have shown one of the upright

pieces of a frame-section, A, for a window-sash, only in this case the upper and lower ends of the bar C are formed with slots *c*, into which are inserted the bent ends *d*¹ of spring-strip D, said strip being secured to bar C by one or more rivets, *x*¹, so as to form bowed sections for holding and guiding the window-frame F.

In Fig. 5 I have shown an arrangement which is to be applied to the front window-frames of broughams, &c., and which consists of a U-shaped clamp, I, working in the groove of the frame. This clamp is attached to a pin, *i*, working through a housing, *i*¹, and forced inward by a coiled spring, *i*², the outer end of the pin being riveted over the end of a sleeve, *i*³, formed on the housing *i*¹. This arrangement holds the window-frame securely when wholly raised, and prevents any outward or inward bending of the window-frame.

The various parts of my improved holder are very simple and durable in construction and efficient in action. The finish of the wood-work is not injured by the holders, and at the same time the frames are securely held against falling or rattling.

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

1. An improved window sash or shutter holder, consisting of a spring-strip bent to form two bowed sections for impinging against

the window sash or shutter, substantially as set forth.

2. The combination, with a metal bar secured to a window or shutter frame, of the spring holding-strip secured to the bar and bent to form bowed sections, which impinge against the shutter or window-sash, substantially as set forth.

3. The combination, with a bent spring-strip secured in the lower portion of the window-frame, and constructed to impinge against the window sash or shutter, of a bowed holding-spring located in the upper part of the frame and arranged to impinge against the sash or shutter when raised, substantially as specified.

4. The combination, with the bar C, of the spring-strip secured to said bar and bent over the ends of the same, said strip having the bowed holding-sections *d* *d*¹ *d*² *d*³, as set forth.

5. The combination, with the spring-strips H, the convex surface of which is adapted to bear against a window-sash, of the pin *h*, connected to the spring and the housing *h*¹, substantially as specified.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

F. HERRMAN JURY.

Witnesses:

JACOB SCHMIEG,
RICHARD O. JURY.