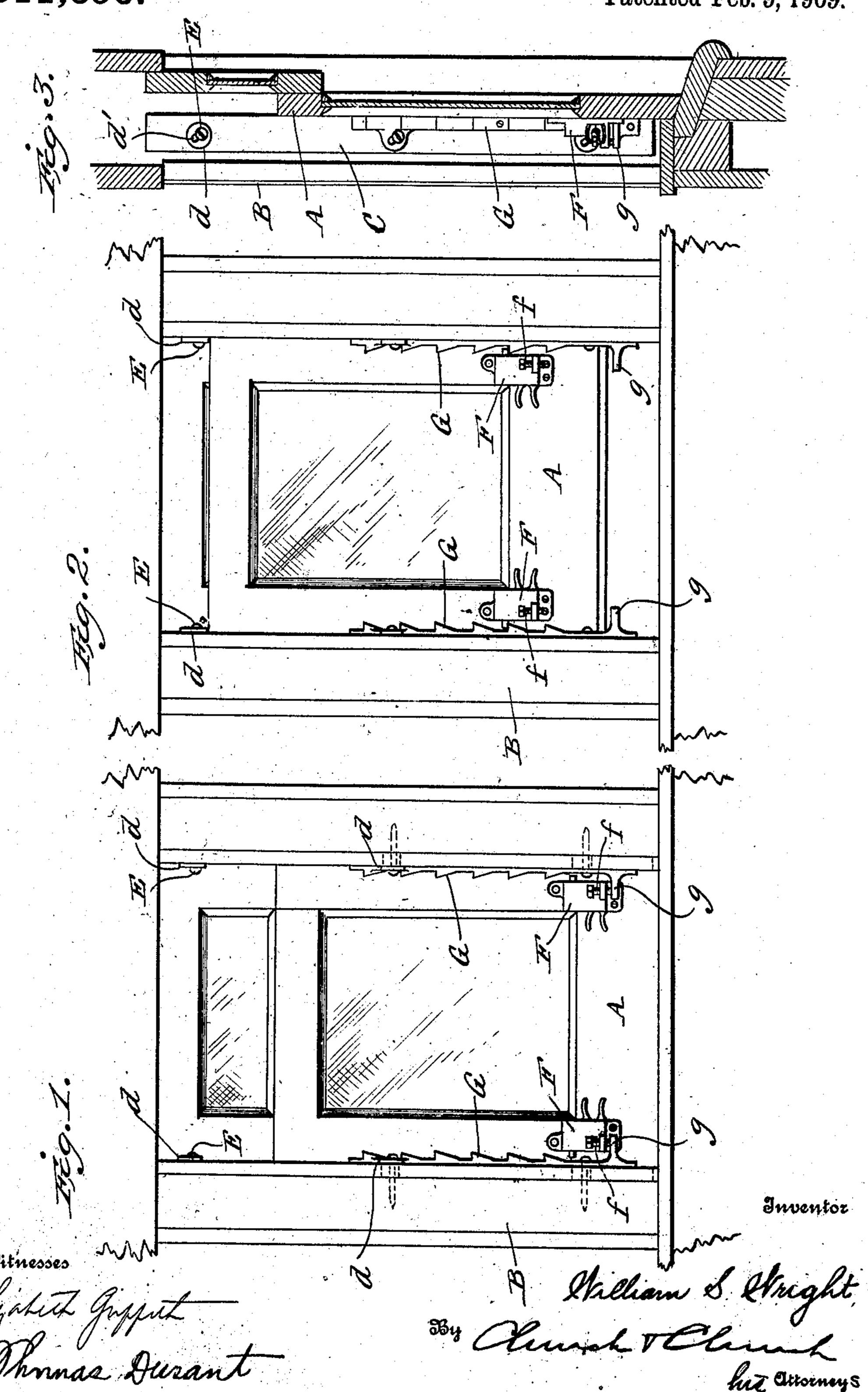
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MEANS FOR HOLDING WINDOW SASH.

APPLICATION FILED JULY 29, 1908.

911,690.

Patented Feb. 9, 1909.



## UNITED STATES PATENT OFFICE.

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## MEANS FOR HOLDING WINDOW-SASH.

No. 911,690.

Specification of Letters Patent. Patented Feb. 9, 1909.

Application filed July 29, 1908. Serial No. 445,990.

To all whom it may concern:

Be it known that I, WILLIAM S. WRIGHT, a citizen of the United States, residing at Newark, Licking county, Ohio, have in-5 vented certain new and useful Improvements in Means for Holding Window-Sash; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying 10 drawings, forming a part of this specification, and to the figures and letters of reference marked thereon.

This invention relates to improvements in window construction and is designed particularly to provide a means whereby the window sash may be held firmly between its guides when in adjusted position so as to prevent rattling, or, under certain circumstances, to prevent the entry of air, etc.

20 around the sash.

While the invention is particularly adapted for use in connection with car windows, it may be advantageously used for holding the windows of buildings or apartments of any char-

25 acter.

sash moves between rigid guides extending | justed position, the sash is provided with vertically along each edge of the sash, and | means for engaging the beads or strips or sufficient play must be allowed to permit of 39 the sash being moved freely into either its open or closed position, but in accordance with the present invention while the same freedom of sash movement is provided for, a holding strip or bead which may constitute 35 one of the side guides, is mounted on the casing so as to be movable toward and from the sash, preferably, in a diagonal plane, and connections are provided whereby the weight of the sash is supported wholly or partly on 40 the movable bead or strip, and whereby the strip is caused to advance toward and against the sash for holding the same against transverse movement.

In the accompanying drawings: Figure 1 45 is an elevation of a window sash and of so much of the casing as is necessary for a clear understanding of the present invention. Fig. 2 is a similar view with the sash partly raised. Fig. 3 is a section taken on a ver-50 tical plane transversely of the sash.

same parts in all the views.

The sash A and casing B are both illustrated as of conventional form, inasmuch as 55 they may be of ordinary or any preferred construction.

In accordance with the present invention, beads or strips C, which may conveniently constitute the inner walls of the side guides for the sash, are mounted on the casing, so as co to move toward and from the sash in a downwardly inclined plane. As shown, the said beads or strips are provided with metal fixtures, indicated at d, having diagonal slots d' therein through which screws or equiva- 65 lent fasteners are passed into the casing or frame. The metallic fixtures d and screws E constitute guides for the beads or strips, and it will be readily understood that when in elevated position the guides or strips will 70 be moved away from the sash and the latter is free for vertical adjustment, but when said strips are moved downwardly they will advance toward the sash, thereby not only binding the sash tightly so as to prevent rat- 75 tling, but will also prevent passage of the air around the edges of the sash.

In order to make the movements of the beads or strips dependent upon the movements of the sash, and to insure the proper 80 binding of the said beads or strips against In windows of ordinary construction the the sash, whenever the latter is in its adprojections on the latter, whereby the said 85 beads or strips are adapted to partially or wholly support the weight of the scsh, and to be thereby moved into engagement with the sash. Conveniently, the ordinary catches indicated at F may be used in connection 90 with racks G secured to the beads or strips for effecting the desired object, and in order to insure the weight of the sash being utilized to depress the beads or strips when the sash is in its closed position, the racks are 95 preferably provided with bottom projections or shoulders g with which the catches coöperate when the sash is in closed position.

In the preferred construction the catches are provided with set screws f, or equivalent 100 devices, adapted to contact with the shoulders or projections g, whereby the closing movement of the sash may be made to invariably depress the beads or strips so as to contact firmly with the edges of the sash and at 107 the same time the bottom of the sash may be Similar letters of reference indicate the brought into such proximity to the sill or water-table of the casing as to make the structure water-tight.

As a convenient and preferred construc- 110 tion, the racks G are formed integral with I the lower guide fixtures d, and the whole

structure is so designed that windows at present in use may be cheaply and easily altered to embody the present improvements, it only being necessary to substitute racks 5/and guide fixtures, such as illustrated herein, for the fastening devices of the beads or strips at present in use, and to provide for the necessary vertical movement of the beads or strips.

While I have described the invention as making use of the inner beads or guide strips for the sash, it will be understood that the movable beads or guide strips may be applied over those at present in use, in which 15 event they will constitute supplemental sash holding strips adapted to project against the sash when the latter is in its adjusted position, but the ordinary movements of the sash will be guided by the usual

20 beads and strips now commonly employed. Having thus described the invention, what is claimed as new and desired to be secured

by Letters Patent, is:

1. The combination with a window sash 25 and frame, of a bead or strip extending parallel with the sash and movably mounted on the frame, of coöperating projections on the sash and movable bead or strip, whereby the weight of the sash is supported in whole or in 30 part by the movable bead or strip, and the latter is thereby moved into contact with the sash.

2. In a window sash holder, the combination with a strip or bead mounted in guides 35 to move toward and from the sash, a catch movable with the sash, and a plurality of shoulders carried by the bead and with which the said catch cooperates to support the weight of the sash and move the strip or 40 bead toward the sash.

3. In a window sash holder, the combination with the sash, casing, and bead or strip mounted in guides on the casing to move diagonally toward and from the sash, of co-45 operating projections on the sash and bead or strip, whereby the weight of the sash is adapted to be supported by the bead or strip

and the latter thereby moved into contact with the sash.

4. In a window sash holder, the combina- 50 tion with the sash and frame in which the sash is movably mounted and vertically arranged beads or strips mounted on the frame to move diagonally toward and from the sash, racks mounted on said beads or strips 55 and catches for cooperation with said racks, mounted on the sash, substantially as described.

5. In a window sash holder, the combination with the frame, sash movably mounted 60 in said frame and guide beads or strips mounted on the frame to move diagonally toward and from the sash, the racks mounted on said beads or strips, catches mounted on the sash for cooperation with said rack, 65 and projections or shoulders at the bottom of the racks for cooperation with the catches when the sash is in its closed position.

6. In a window sash holder, the combination with the sash, frame in which the sash 70 is movably mounted, and beads or strips mounted on the frame to move diagonally toward and from the sash, of coöperating projections on the sash and beads or strips, and means whereby said projections may be 75 relatively adjusted to support the weight of the sash and move the beads or strips into

contact with the sash.

7. In a window sash holder, the combination with the sash, frame in which it is mov- 80 ably mounted, and beads or strips mounted on the frame to move diagonally toward and from the sash, of racks mounted on said beads or strips and having projections or shoulders at their lower ends, and catches 85 mounted on the sash for coöperation with the rack and adjustable projections on said catches for cooperation with the said shoulders or projections on the lower ends of the racks.

WILLIAM S. WRIGHT.

Witnesses:

W. B. WINGERTER, Edith L. Kureth.