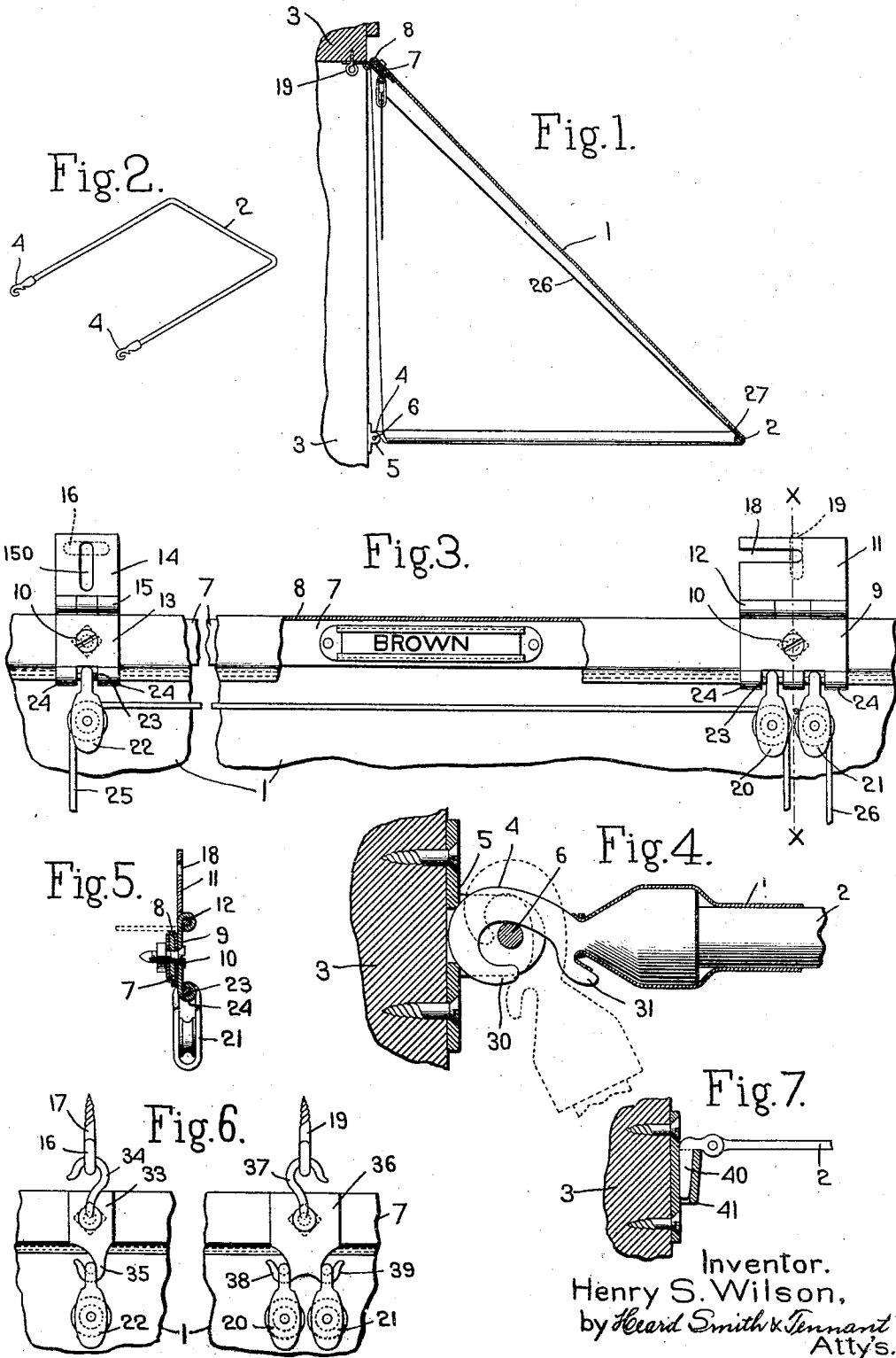


1,237,006.

Patented Aug. 14, 1917.



Inventor.
 Henry S. Wilson,
 by *Heard Smith & Tennant*
 Attys.

UNITED STATES PATENT OFFICE.

HENRY S. WILSON, OF BOSTON, MASSACHUSETTS.

AWNING.

1,237,006.

Specification of Letters Patent.

Patented Aug. 14, 1917.

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To all whom it may concern:

Be it known that I, HENRY S. WILSON, a subject of the Czar of Russia, residing at Boston, county of Suffolk, State of Massachusetts, have invented an Improvement in Awnings, of which the following description, in connection with the accompanying drawing, is a specification, like characters on the drawing representing like parts.

This invention relates to awnings, and has for its principal object to provide a novel awning in which the cords, pulleys and awning frame constitute a unitary structure which can be easily and quickly placed in position on window frame, or removed therefrom.

In order to give an explanation of my invention, I have illustrated in the drawings some selected embodiments thereof which will now be described, after which the novel features will be pointed out in the appended claims.

Fig. 1 is a vertical sectional view of an awning embodying my invention.

Fig. 2 is a perspective view of the awning frame shown in Fig. 1.

Fig. 3 is a fragmentary view showing one means of securing the awning to the window frame.

Fig. 4 is a sectional view of one means for pivotally connecting the awning frame to window frame.

Fig. 5 is a section on the line X—X Fig. 3.

Figs. 6 and 7 are detail views showing different forms of my invention.

The awning is shown at 1, and is secured to the usual awning frame 2. This awning frame 2 is provided at its ends with means by which it is can be detachably secured to the window frame 3. In one embodiment of my invention such means are in the form of hooks 4, that are adapted to detachably engage hinge members 5 that are secured to the sides of the window frame. These hinge members are preferably one-piece members and are shown as provided with pins 6 with which the hooks 4 engage, and which constitute pivots about which the awning frame 2 can be swung.

The awning has secured thereto at its upper edge, a bar 7, which is shown as being

received in a pocket 8, formed in the material of the awning 1.

The upper edge of the awning is secured to the top of the window frame by means which admit the ready attachment of the awning to the window frame, or detachment therefrom, and said means have associated therewith pulley blocks, through which pass the usual cords by which the awning is raised. In one embodiment of my invention these attaching means are in the form of hinges, one leaf of which is fixedly secured to the upper edge of the awning, and the other leaf of which is adapted to be detachably secured to the window frame. While it is possible to employ hinges of different construction without departing from my invention, I have chosen herein to illustrate a hinge which is simple to manufacture, and is practical to use. Two hinged devices are employed, one at each end of the bar 7. The device at one end comprises a hinged member 9 which is rigidly secured to the bar by means of a clamping screw 10 which passes through alined apertures in the hinge member, and in the bar, and also a second hinged member 11, which is pivotally secured to hinged member 9 at 12.

The hinge device at the other end of the bar 7 comprises a hinge member 13, and a hinge member 14, which are pivotally connected together at 15, the hinged member 13 being fixedly secured to the bar 7 by means of clamping screw 10. The hinge member 14, is provided with a slot 150 of a size to receive the eye end 16 of a screw eye 17 that is screwed into the window frame. The hinge member 11 is provided with a slot 18 adapted to receive the shank of screw eye 19, also screwed into the window frame. The hinge member 9 has two pulley blocks 20 and 21 secured thereto, while the hinge member 13 has a single pulley block 22 secured thereto. These pulley blocks may be attached to the hinge members in any suitable way. As herein shown, each pulley block is loosely mounted on a pin 23, that is supported in ears 24 formed on the hinge members 9 and 13 respectively. The cords 25 and 26 by which the awning is raised are attached to the awning frame at 27 as shown.

One of the cords 25 passes through the pulley block 22 and thence through the pulley block 20 and the other cord passes directly through the pulley block 21.

5 The pulley blocks 22, 20 and 21 are thus secured to the awning, instead of being secured to the window frame, as is the usual practice.

The operation of putting up the awning involves merely the attachment of the hooks 10 4 to the hinge members 5, the raising of the upper edge of the awning into position at the top of the window frame, the movement of the awning laterally sufficiently to cause the shank of the screw eye 19 to enter the 15 slot 18 of the hinge member 11, and the placing of the slot 15 of the hinge member 14 over the eye 16 of the screw eye 17, it being understood that the said screw eye 17 will be turned into such a position that the eye 20 16 thereon will freely enter the slot 15. When this is done the screw eye will be so positioned that the head thereon will stand across the slot 18.

The awning may be taken down by simply 25 reversing the above operations and as the pulley blocks 22—21—20 are permanently secured to the awning, the placing of the awning in position or its removal from the window frame does not necessitate the 30 threading of the cords 25 and 26 through the pulley blocks or the removal of the cords from the pulley blocks.

I will preferably construct the hooks 4 so they can be attached to the hinge mem- 35 bers 5 only when the awning frame hangs vertically, thus preventing any liability of the awning frame from becoming detached from the hinge members when the awning is either raised or lowered. This is accom- 40 plished by making each hook 4 with a comparatively long nose 30, which acts as a guard to prevent the hook becoming disengaged from the hinge member when the awning is either raised or lowered.

45 Each arm of the awning frame is shown as provided with a cloth engaging finger 31, which overlies the edge of the fabric constituting the awning, and which prevents the fabric from entering the hook 4, and 50 thus interfering with the operation of placing the hook on the hinged pins 6.

In Figs. 6 and 7 I have shown another embodiment of my invention in which the hinge members are of slightly different con- 55 struction. In this embodiment the bar 7 has attached to one end thereof a member 33, to which is pivoted a hook 34 that is adapted to hook into the screw eye 17, said member 33 having a hook 35 to which the 60 pulley block 22 is attached. At the other end, said bar 7 has secured thereto a member 36, which has pivoted thereto a hook 37, that is adapted to hook into the screw eye 19, said member 36 having two hooks

38 and 39 to which the pulley blocks 20 and 65 21 are secured.

In this embodiment of my invention the awning frame 2 has pivoted to each end thereof, a foot member 40, which is adapted to detachably engage a socket or keeper 41, 70 permanently secured to window frame 3.

The operation of putting up an awning having this particular construction involves merely the introduction of the members 40 into the sockets 41 and the hooking of the 75 hooks 34 and 37 into the screw eyes 17 and 19.

In both embodiments of my invention, the means for attaching the upper edge of the awning to the screw eyes 17 and 19 80 is in the nature of a hinged construction, and the advantage of this is that it permits the screw eyes to be placed either on the under side of the top of the window frame or on the outside of the window frame or 85 at any intermediate angle.

In putting up awnings it frequently hap- pens that the screw eyes 17 and 19 have to be placed in different angular positions de- 90 pending upon the construction of the win- dow frame and of the building. By em- ploying the hinged construction shown it is possible to place the screw eyes at any de- 95 sirable angle without affecting in any way the operation of the awning. It is, however, not necessary that the means for connecting the upper edge of the awning to the win- 100 dow frame should be in the form of hinge devices as for some window frames a rigid connecting member might be used. Neither is it necessary that screw eyes be employed as any attaching device having a shank and a head might be used.

Having fully described my invention, what I claim as new and desire to secure by Let- 105 ters Patent is:—

1. In an awning structure, the combina- tion with an awning frame, of means for securing said frame detachably and piv- 110 otally to a window frame, an awning se- cured to the awning frame, a bar secured to the upper edge of the awning, a plu- rality of hinge connecting members, each comprising two pivotally-connected leaves, means securing one leaf of each hinge mem- 115 ber rigidly to said bar, the other leaf of each hinge member being provided with a slot adapted to receive the head of a screw eye or other fastening device, pulley blocks carried by said connecting members, and 120 cords secured to the awning frame and passing over said pulley blocks.

2. In an awning structure, the combina- tion with hinge members secured to the side of a window frame and each provided with 125 a pivotal pin, of a U-shaped awning frame having at each end thereof a hook to pivotally engage the pin of a hinge member,

each hook having an elongated nose which acts as a guard to prevent the hook from being disengaged from the pin except when the awning frame is in one position, an awning secured to said frame, and provided with means for securing it at its upper edge to the window frame, said awning frame having at each end thereof adjacent the hook a cloth-engaging finger which overlies the edge of the fabric of the awning and prevents it from entering the hook. 10

In testimony whereof, I have signed my name to this specification.

HENRY S. WILSON.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."