

W. F. PILLER.
SCREEN ATTACHMENT.
APPLICATION FILED MAR. 18, 1919.

1,306,715.

Patented June 17, 1919.
3 SHEETS—SHEET 1.

FIG. 1.

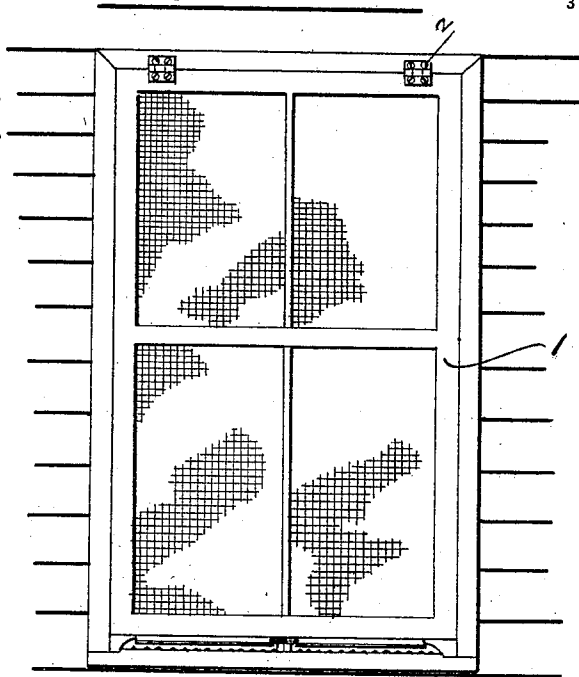
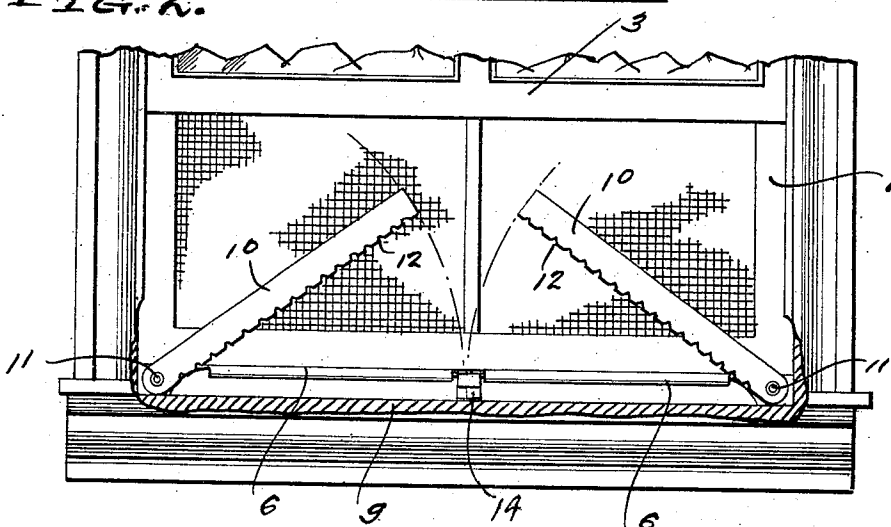


FIG. 2.



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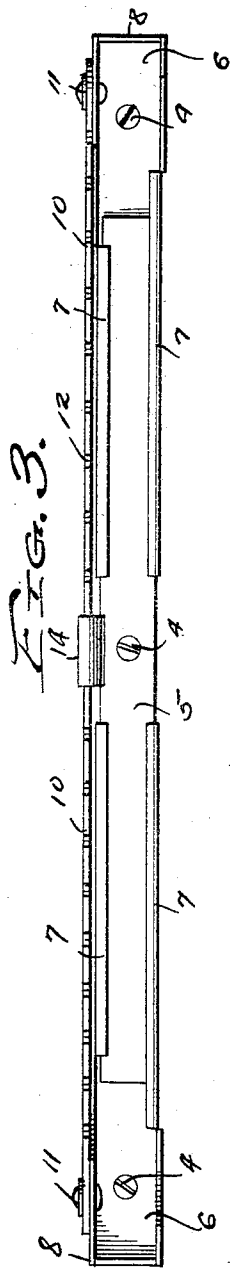


FIG. 3.

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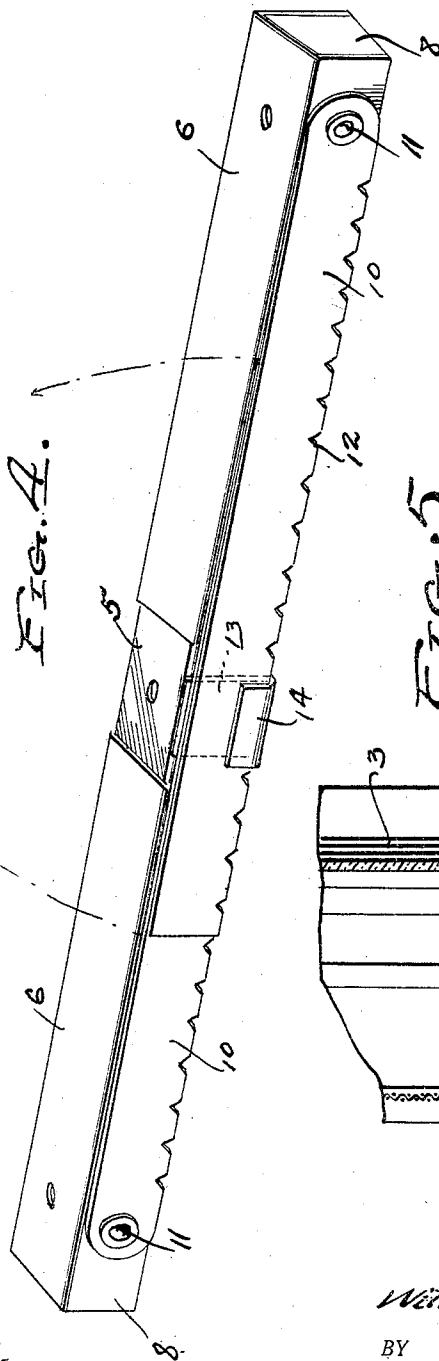


FIG. 4.

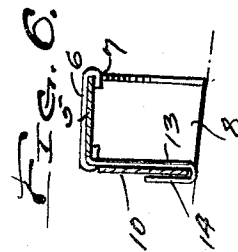


FIG. 6.

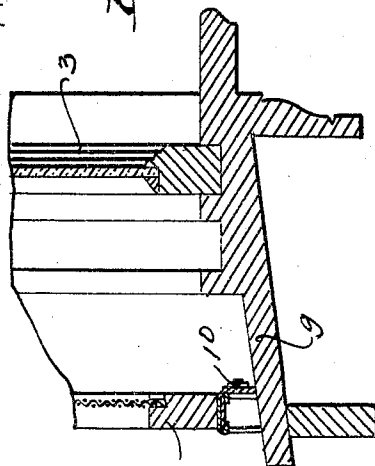


FIG. 5.

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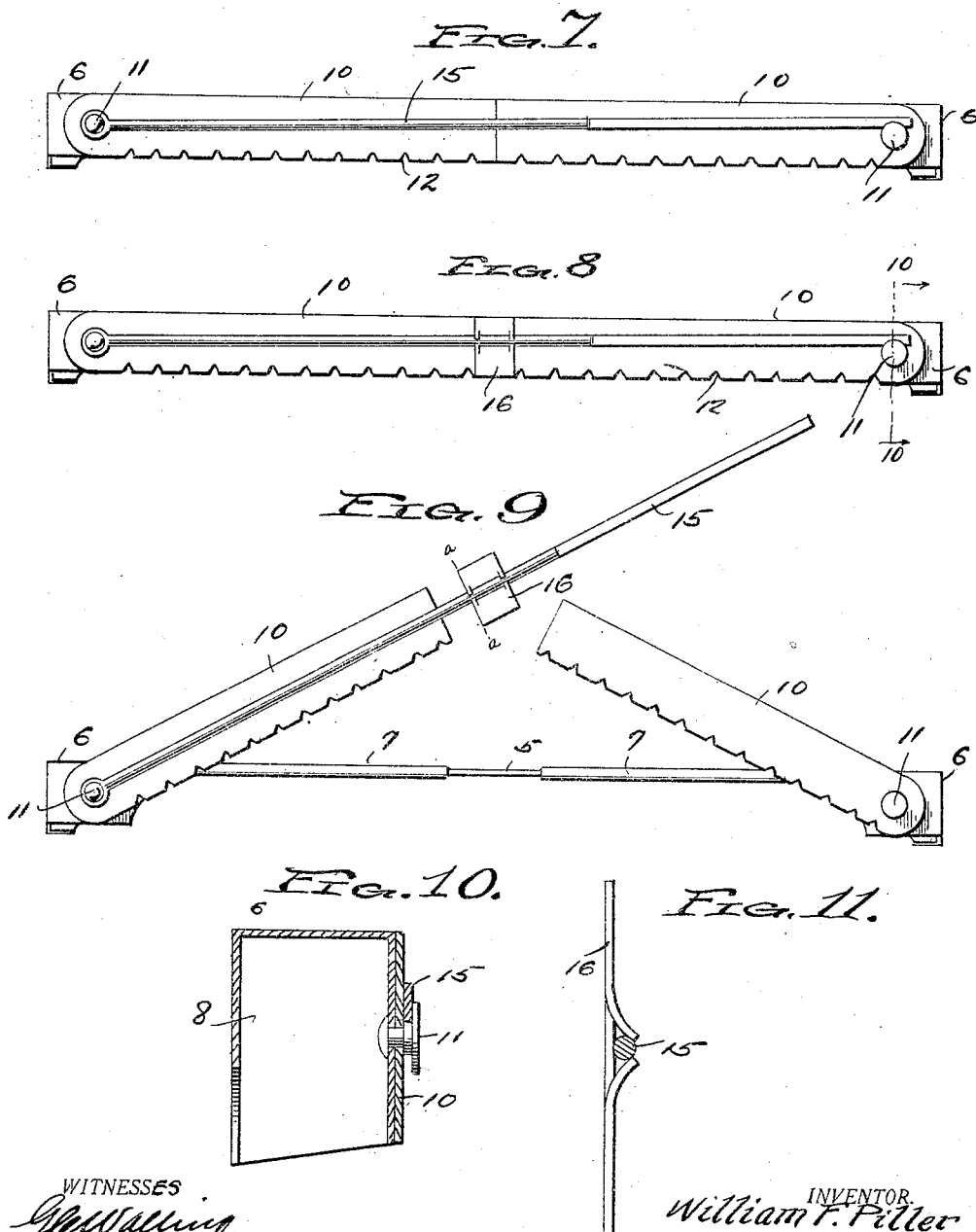
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3 SHEETS—SHEET 3.



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SCREEN ATTACHMENT.

1,306,715.

Specification of Letters Patent. Patented June 17, 1919.

Application filed March 18, 1919. Serial No. 283,347.

To all whom it may concern:

Be it known that I, WILLIAM F. PILLER, a citizen of the United States, residing at Dalton, in the county of Cheyenne and State of Nebraska, have invented certain new and useful Improvements in Screen Attachments, of which the following is a specification.

Fly screens constructed to completely close a window opening and hinged to swing outward at their lower ends do not provide for the ready escape of moisture during a wet season and in consequence the sash swell and the window sill rots. The present invention provides for a quick escape of the moisture so that the same does not remain such a length of time as to soak into the wood work and produce undesirable results such as herein indicated.

The invention also has for its object to provide a device of the nature and for the purpose stated which likewise will admit of dust being readily swept from the window sill without necessitating the opening of the screen, the device embodying a gate or pivoted closure which may be swung out of the way when it is required to brush dust from the sill.

A further purpose of the invention is the provision of a device which is adjustable within certain limits to admit of its ready application to screens of different widths.

The drawings illustrate a preferred embodiment of the invention. However, it is to be understood that in adapting the same to meet different conditions, various changes in the form, proportion, and minor details of construction may be resorted to without departing from the nature of the invention as claimed hereinafter.

In the drawings hereto attached,

Figure 1 is a front view of a window provided with a screen and a screen attachment embodying the invention.

Fig. 2 is a detail view of the lower portion of a window as seen from the inner side, the lower sash being partly elevated and the gates or pivoted closures of the attachment being swung upward into open position.

Fig. 3 is a view of the attachment as seen from the bottom side.

Fig. 4 is a perspective view of the device.

Fig. 5 is a transverse section.

Fig. 6 is a transverse section of the attachment at a central point.

Figs. 7, 8 and 9 illustrate a modification.

Fig. 10 is an enlarged section on the line 10—10 of Fig. 8.

Fig. 11 is an enlarged section on the line a—a of Fig. 9.

Corresponding and like parts are referred to in the following description and indicated in the several views of the drawings by like reference characters.

The numeral 1 designates a window screen of the nature completely closing a window opening and hinged at its upper end, as indicated at 2 so as to swing outward at its lower end. The screen 1 is disposed at the outer side of the window opening, as indicated most clearly in Fig. 5 and the window opening is provided with the usual glazed sash 3 which is vertically slidable.

The attachment is adapted to be secured to the lower edge of the frame of the screen 1 by suitable fastenings 4. The attachment comprises a middle section 5 and similar end sections 6. These sections have a sliding connection, the end sections 6 having their longitudinal edge portions recurved to form guide ways 7 which embrace the longitudinal edges of the middle section 5, thereby retaining the several sections in the adjusted position. The sections 5 and 6 may be of any determinate length to admit of longitudinal adjustment of the device within certain limits whereby the attachment may be lengthened or shortened according to the width of the screen to which it is to be attached. The middle section 5 is provided centrally with an opening to receive the middle fastening 4 and the end sections 6 are provided with openings near their outer ends to receive the end fastenings 4. The outer ends of the sections 6 are formed with hollow supports 8 which may be of any height so as to space the sections some distance from the window sill 9. The hollow supports 8 preferably consist of end and side portions of the sections bent relatively in a downward direction so as to engage the sill 9 and support the sections the required distance thereabove. In the preferable construction the sections 5 and 6 are constructed of sheet metal.

Gates or closures 10 are pivoted at their outer ends to the inner sides of the hollow supports 8 and are of a width corresponding to the height of the supports 8 so as to rest upon the sill 9 and completely close the space between such sill and the lower edge of the screen 1. The gates 10 are connected by pivot fastenings 11 in any manner

to the supports 8, thereby leaving the inner ends of the gate free to be swung upward, as indicated in Fig. 2. A plurality of notches 12 is formed in the lower edges of the gates or closures 10 and constitute outlets for the ready escape of moisture received upon the sill 9. The gates 10 being disposed at the inner side of the screen are readily accessible to be swung into open position so that any dust on the sill 9 may be brushed therefrom beneath the screen without necessitating the swinging of the screen into open position. The gates 10 are likewise constructed of sheet metal and when marketed are of a length to overlap and when the attachment is placed into position portions of the gates may be removed from their outer ends so that the contiguous ends of the gates may abut when closed, as indicated most clearly in Fig. 3. It is to be understood that it is not necessary to remove portions of the gates to admit of their inner ends abutting, but such construction is desirable as it admits of a much neater fit and appearance since the overlapping of end portions of the gates is obviated.

When the attachment is in position it is secured to the lower edge of a screen 1 by fastenings 4, the device being disposed so that the gates 10 are located upon the inner side of the screen or that side facing the room. Any moisture received upon the sill 9 finds a ready escape by reason of the outlets 12 such outlets also providing for a free circulation of air so as to dry the sill after a rainy spell has passed. The device coming between the lower edge of the screen and the sill 9 prevents moisture being retained, thereby preventing the rapid decay of the parts which results from such arrangement that admits of the screen making direct contact with the sill and which retains the moisture for a relatively long period. Any dust collecting on the sill may be conveniently and easily removed therefrom by throwing the gates 10 into open position, as indicated in Fig. 2 and brushing the dust outward from the sill beneath the screen 1.

The foregoing description and the drawings have reference to what may be considered the preferred, or approved form of my invention. It is to be understood that I may make such changes in construction and arrangement and combination of parts, materials, dimensions, et cetera, as may prove expedient and fall within the scope of the appended claims.

The middle section 5 is provided at a central point with a depending wing 13 which has its lower edge upturned, as indicated at 14 to receive the lower edge of the end portions of the gates 10, thereby preventing outward movement of the gates and holding them close against the sections. The wing 13 also performs the office of a closure to

prevent the formation of a space between the ends of the gates in the event of a miscut.

In the modification a rod or bar 15 is mounted upon one of the fastenings 11 and is adapted to engage the other fastening 11, as indicated most clearly in Fig. 10, thereby holding the gates 10 close against the sections. A plate 16 slidable on the rod 15 is adapted to close the space between the ends of the gates in the event of a miscut.

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

1. In combination with a window and a screen therefor, a device interposed between the window sill and the lower edge of the screen and providing for ready escape of moisture.

2. In combination with a window and a screen therefor, a device interposed between the lower edge of the screen and the window sill and spaced from the latter and a closure covering the space between the sill and screen and carried by the device and forming a part thereof.

3. In combination with a window and a screen therefor, a device interposed between the lower edge of the screen and the window sill and a gate pivoted at one end of the device and adapted to swing upwardly into open position and normally closing the space between the screen and sill.

4. In combination with a window and a screen therefor, a device comprising a plurality of slidably connected sections to admit of longitudinal adjustment, said device being interposed between the sill and the lower edge of the screen and gates carried by the outermost sections and adjustable therewith, said gates being of a length to admit of their inner ends overlapping whereby to adapt the gates to the adjusted length of the device.

5. A window screen attachment, comprising a middle and end section slidably connected to admit of the attachment being lengthened or shortened, and gates attached at the outer ends to the end sections and having their inner ends overlapping.

6. A window screen attachment, comprising a middle and end section slidably connected and gates pivotally connected to the outer ends of the end section and having a plurality of notches in their lower edges.

7. A window screen attachment, comprising a middle and end section, one of the sections having guide ways at its edges to slidably engage the companion section and gates pivotally connected to the outer ends of the end section and having a plurality of notches in their lower edges.

8. A window screen attachment, comprising a support adapted to be interposed between the sill and the lower edge of the screen, a gate pivoted to the support at one

end and a keeper on the support to engage the swinging end of the gate to hold the same close against the support.

9. A window screen attachment, comprising a support, gates pivoted at their outer ends to the support and a keeper for engaging the swinging ends of the gates and adapted to close any space that may exist between the extremities of the gates.

10. A window screen attachment, comprising a support, gates pivoted at their outer ends to the support, a rod mounted upon

one of the pivot fastenings and adapted to engage the other pivot fastening and a plate slidable on the rod and adapted to close the space between the extremities of the gates.

In testimony whereof I affix my signature in presence of two witnesses.

WILLIAM F. PILLER.

Witnesses:

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HELMUTH A. J. HEITMANN.

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