B. J. MARRIOTT.

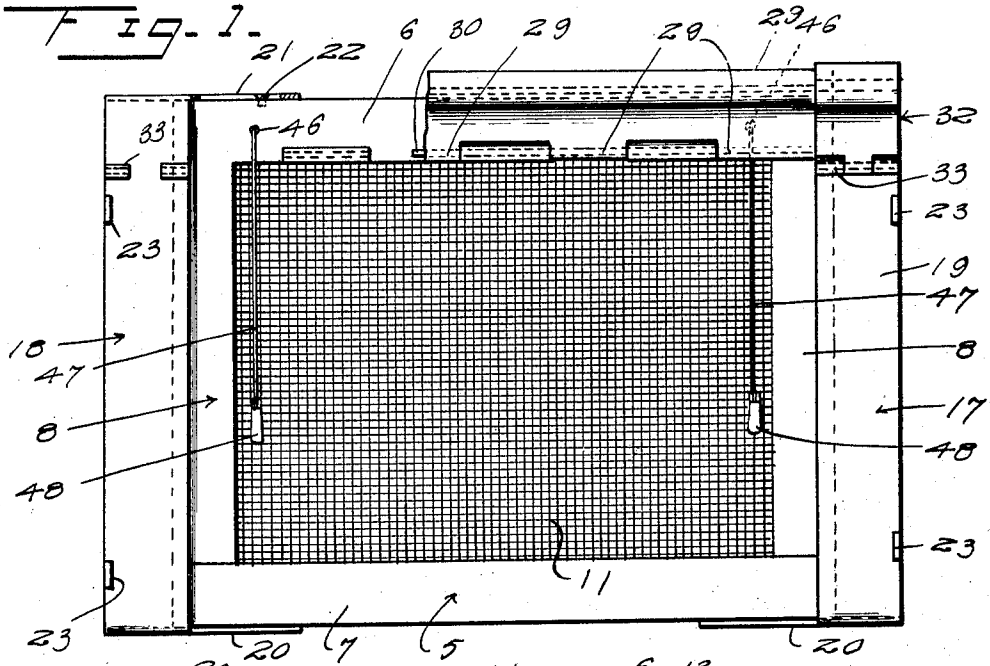
WINDOW SCREEN.

APPLICATION FILED MAY 26, 1920.

1,393,560. Patented Oct. 11, 1921.

3 SHEETS—SHEET 1.

Fig. 1.



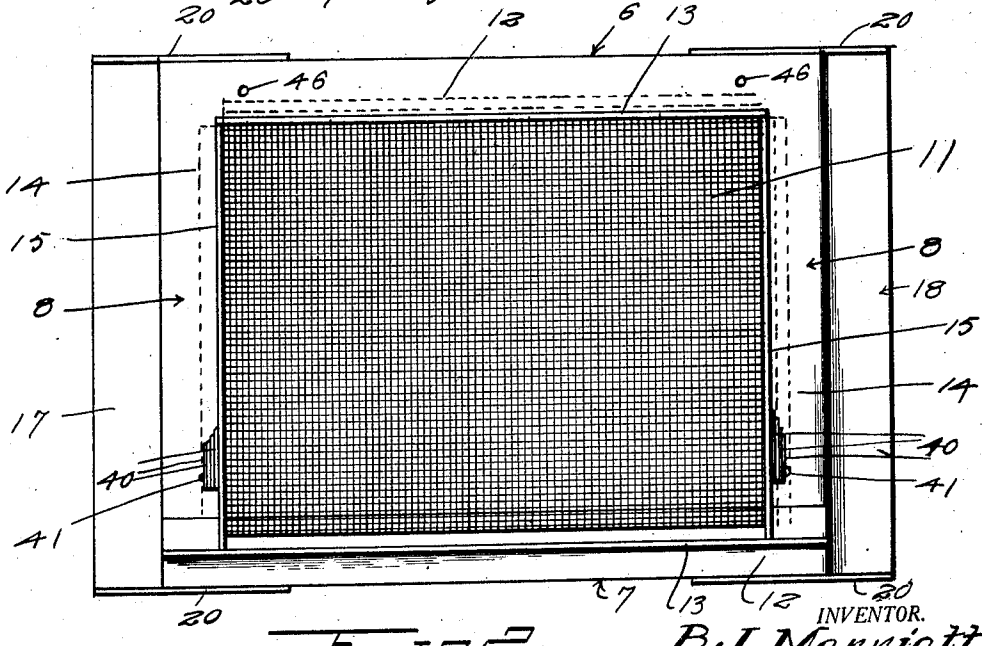


Fig. 2.

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3 SHEETS—SHEET 2.

Fig. 3.

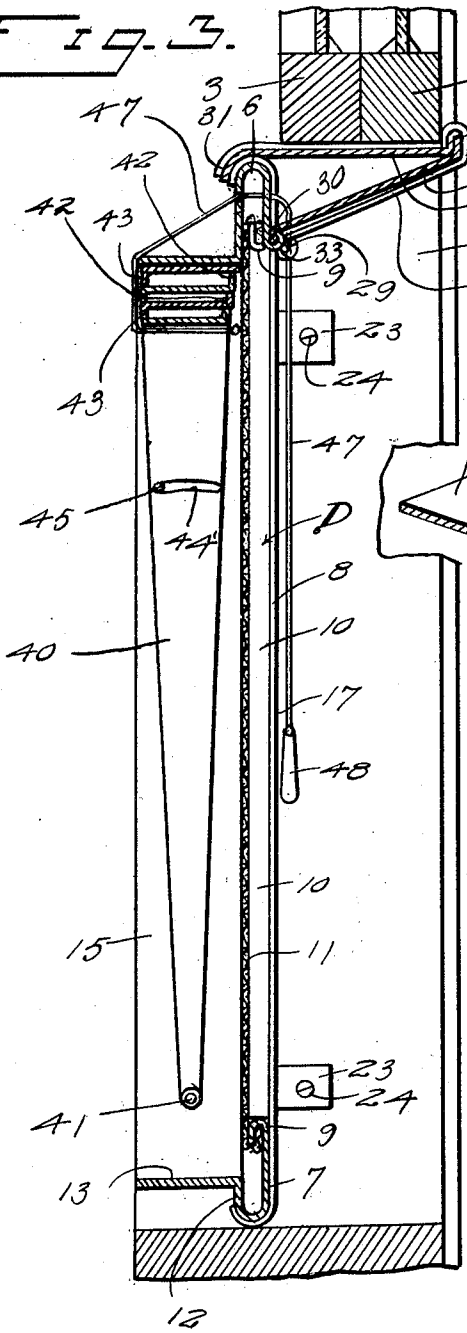


Fig. 4.

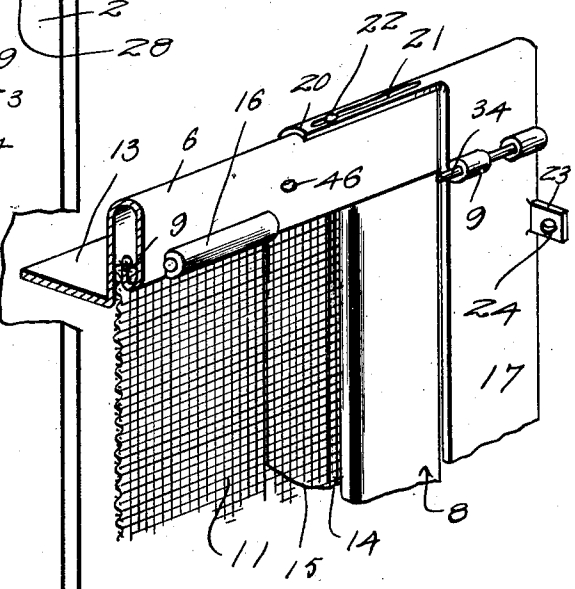
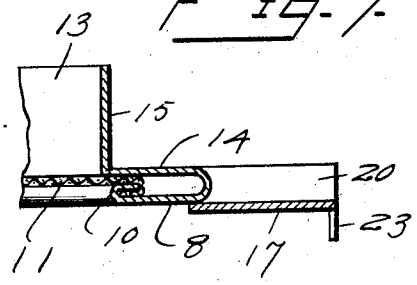


Fig. 7.



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3 SHEETS—SHEET 3.

Fig. 6.

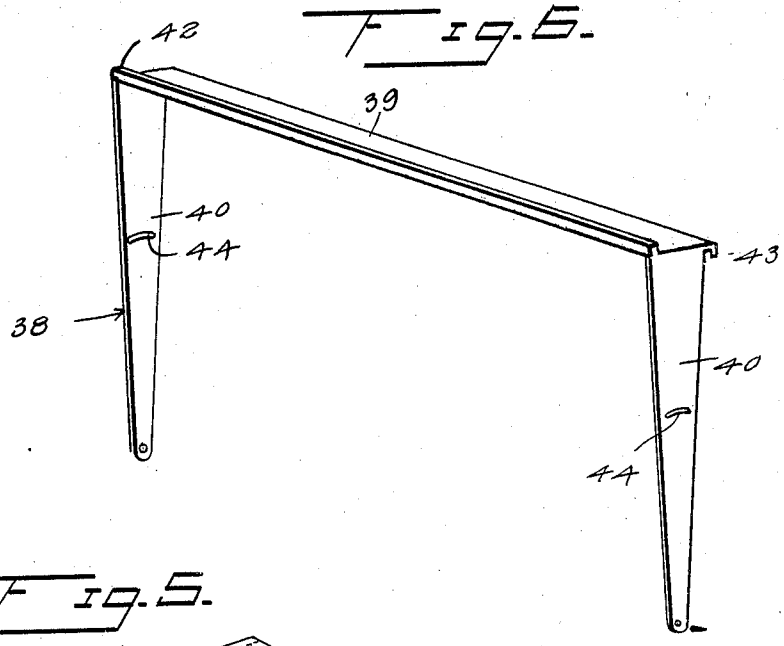


Fig. 5.

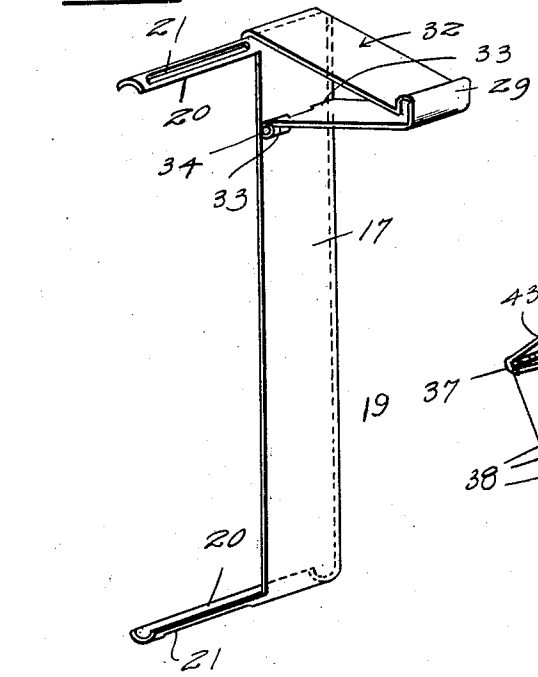
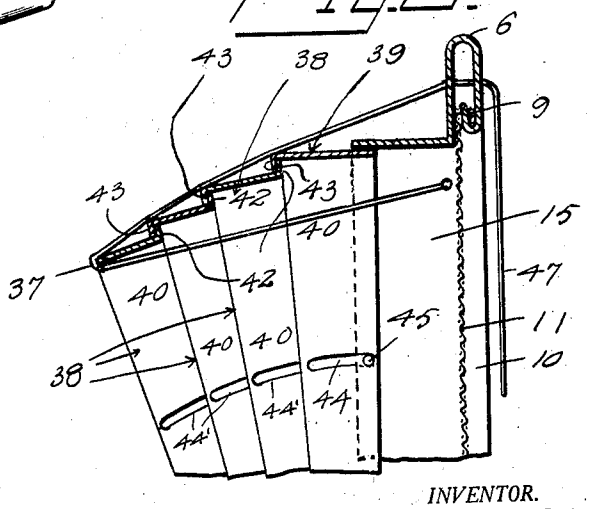


Fig. 8.



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UNITED STATES PATENT OFFICE.

BURTON J. MARRIOTT, OF PETROLIA, ONTARIO, CANADA.

WINDOW-SCREEN.

1,393,560. Specification of Letters Patent. Patented Oct. 11, 1921.

Application filed May 26, 1920. Serial No. 384,367.

To all whom it may concern:

Be it known that I, BURTON J. MARRIOTT, a subject of the King of Great Britain, residing at Petrolia, in the Province of Ontario and Dominion of Canada, have invented certain new and useful Improvements in Window-Screens; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable other skilled in the art to which it appertains to make and use the same.

This invention relates to window screens and the primary object of the invention is to provide an improved screen which will effectively prevent the entrance of flies through a window and form means supporting the window sashes of windows which are not counterbalanced.

Another object of the invention is to provide an improved window screen having means for preventing the entrance of rain through the screen, when the window sash is in raised position.

A further object of the invention is to provide an improved window screen, which is adjustable within certain limits, whereby the same can be readily fitted to window frames of various sizes.

A still further object of the invention is to provide an improved window screen, which may be fitted to a window frame so that the window sash may be raised and lowered without necessitating the removal of the screen, the screen having means for removably engaging the window sash to hold the same in its raised position.

A still further object of the invention is to provide an improved window screen of the above character, which is durable and efficient in use, one that is simple and easy to manufacture, and one that can be placed upon the market at a reasonable cost.

With these and other objects in view, the invention consists in the novel construction, arrangement and formation of parts as will be hereinafter more specifically described, claimed and illustrated in the accompanying drawings, forming a part thereof, in which:

Figure 1 is a front elevation of the improved screen.

Fig. 2 is a rear elevation of the same.

Fig. 3 is a central vertical section through the same, illustrating the same in operative position supporting the lower window sash.

Fig. 4 is a fragmentary perspective view of the screen showing the side members in extended position.

Fig. 5 is a perspective view of one of the extensible side members removed from the screen.

Fig. 6 is a detail perspective view of one of the hood or awning leaves.

Fig. 7 is a fragmentary sectional view of one of the ends of the frame.

Fig. 8 is a fragmentary sectional view of the upper portion of the frame, showing the hood extended.

Referring to the drawings in detail, wherein similar reference characters designate corresponding parts throughout the several views, the numeral 1 generally indicates the improved screen, which is adapted to be used in connection with a window frame 2 having the ordinary sliding upper and lower sashes 3 and 4.

The improved screen 1 includes a metallic frame 5 of substantially rectangular formation having top and bottom rails 6 and 7 and the end rails 8. The end rails 8 are connected to the upper and lower rails in any suitable manner. The inner edges of the upper and lower rails 6 and 7 and the end rails 8 are bent inwardly and turned back as at 9 and 10 to receive the screen 11 which has it edges bent into engagement with the turned back inner edges of the rails. The screen is then soldered in position. The outer edges of the upper and lower rails 6 and 7 are then bent back upon themselves as at 12 and then bent outwardly to form rearwardly extending flanges 13. The flanges 13 extend inwardly of the turned back edges 9, as clearly shown in the drawings.

The end rails 8 have their outer edges bent back upon themselves as at 14 and then outwardly to form a rearwardly extending flange 15. The turned back edges 9 formed on the lower edge of the upper rail 6 is provided with a plurality of spaced slits and the portions lying between said slits are bent

inwardly and upwardly to provide hinged barrels 16, for a purpose which will hereinafter more fully appear.

The screen 14 is also provided with extensible side members 17 and 18, so that the screen may be readily fitted in window frames of various sizes and each side member includes a flat vertical plate 19, which is relatively wide and adapted to overlie and slidably engage the front strip of the screen. The upper and lower ends of the vertical plate 19 are provided with inwardly extending extensions or arms 20 which are provided with slots 21, which receive headed fastening elements 22 carried by the upper and lower rails 6 and 7. It will thus be seen that the end extensions 17 and 18 can be pulled outwardly so that the screen can be fitted to windows of various sizes. The edges of the screen are provided with outwardly extending ears 23 which are apertured as at 24, to receive suitable fastening elements whereby the screen may be readily secured to the frame of a window. The upper ends of the side members 17 and 18 are also provided with hinge barrels 25, which may be soldered or otherwise secured to the front face of the extensions, and these barrels are located slightly below the hinge barrels 16 carried by the upper rail 6, and the purpose of these hinge barrels will hereinafter more fully appear.

A plate 26 is provided for supporting the lower sash 4 in its raised position and this plate includes a substantially horizontal portion 27 and a downwardly and inclined plate 28. The meeting edges of the horizontal portion and inclined portion are bent to form an upwardly extending flange 29 for engaging the forward surface of the lower rail of the window sash. The lower edge of the inclined portion 28 is provided with a plurality of hinge barrels 29, which are adapted to fit in between the hinge barrels 16 and a suitable pivot pin 30 is positioned in the alined barrels 29 and 16 and pivotally supports the screens in position.

The rear edge of the horizontal portion 27 is provided with a hooked end 31 for engaging the upper rear edge of the upper rail 6 so as to hold the plate 26 in operative position for holding the lower sash in its raised position.

When it is desired to lower the sash, the same is first raised and the plate 26 is swung on the pivot pin 30 until the inclined portion 28 is flush with the front surface of the upper rail 6, which then permits the lower sash 4 to be readily lowered. By this arrangement, it can be seen that the window screen may be readily left at all times without necessitating the removal thereof during the raising and lowering of the sash and at the same time the window screen provides means for engaging the lower sash to hold the same in raised position. It is to be understood, that the same is to be used in connection with window sashes which are not counterbalanced.

The end extensions 17 and 18 are also provided with supporting plates 32 which are shaped identically as the plate 26 and the lower edge of the same is provided with hinge barrels 33 which are adapted to fit in between the hinge barrels 25 formed on the plates 17 and 18, and these barrels 33 and 25 are adapted to receive a hinge pin 34, whereby the plates 32 may be thrown rearwardly when so desired. These plates 32 are of such size as to readily slide over the plates 26 so that the extensions may be readily slid inwardly and outwardly when desired.

A hood 37 is provided, so as to prevent the entrance of rain through the screen into the room when the window is open. The hood 37 is formed of a plurality of leaves 38 which are of substantially U-shape in elevation and include the transverse horizontal portions 39 and the vertical legs 40 which are gradually tapered toward the lower ends thereof. The leaves are each formed smaller than the other so that the same will overlap one another and the terminals of the legs 40 are hingedly secured to the flanges 15 by means of a pivot pin 41. The edges of the horizontal portions 39 are bent back upon themselves in opposite directions to provide hooked ends 42 and 43, which are adapted to engage the hooked end of the adjacent leaf when the hood is in its lowered position. When the hood is in its raised position, the same is adapted to extend under the flange 13 of the upper rail 6 and inside the flanges 15 of the side rails 7 and 8. The innermost leaf 38 has the legs 40 thereof provided with arcuate slots 44 which slidably receive headed pins 45 carried by the flanges 15 of side rails 7 and 8 and these pieces prevent riding out of engagement with the side flanges 15. The upper rail is provided with a pair of apertures 46 adjacent to the ends thereof, through which are secured the pull wires 47 which are extended around the lowermost leaf of the hood 38 and secured in the flanges 15, and these wires are provided with hinged handles 48, whereby the same may be readily pulled inwardly so as to raise the hood on the upper flange 13.

From the foregoing description it can be seen that an improved window screen is provided, which can be readily secured to window frames of all sizes and will readily support a window sash in its raised position and also prevent rain from beating into the room, when it is desired to leave the window in raised position so as to effectively ventilate the room.

The screen is preferably made of metal

suitably treated, so as to prevent the same from becoming rusty.

In practice, I have found that the form of my invention illustrated in the accompanying drawings and referred to in the above description, as the preferred embodiment, is the most efficient and practical; yet realizing the conditions concurrent with the adoption of my device will necessarily vary, I desire to emphasize that various minor changes in details of construction, proportion and arrangement of parts may be resorted to, when required without sacrificing any of the advantages of my invention as set forth.

What I claim as new is:

1. A window screen of the class described comprising a substantially rectangular metallic frame having a rearwardly extending flange formed on the rear face thereof, and a hood pivotally secured to the side flanges and arranged to rest on the upper flange, when the same is in its collapsed position.

2. A window screen comprising a substantially rectangular metallic frame having reticulated material mounted therein, the side and upper portions of the frame having rearwardly extending flanges formed thereon, and a hood formed of a plurality of slidable leaves pivotally secured to the side flanges and arranged to partially cover the screen, when the same is in its lowered position and to engage the top flange when the same is in its collapsed position, and means for raising and lowering said hood.

3. A window screen comprising a substantially rectangular metallic frame having the upper and lower and side rails bent back upon themselves and one edge bent outwardly to form a rearwardly extending flange, the opposite edge being rolled to receive screening carried by the frame, and a hood pivotally supported by the flange, as and for the purpose specified.

4. A window screen comprising a substantially rectangular metallic frame having a rearwardly extended flange, and an upstanding hood pivoted to the side portions of said flange and adapted to rest on the upper portion of said flange when in collapsed condition.

5. A window screen of the class described comprising a substantially rectangular metallic frame having a flange formed thereon, a wire mesh material secured in said frame, and a hood composed of telescoping sections with overlapping portions pivoted to said flange and adapted to rest upon the upper portion of the latter when in collapsed condition.

6. A window screen comprising a substantially rectangular frame having a reticulated material mounted therein and an outturned flange extended therearound, and a sectional hood pivotally mounted in said flange and adapted to rest upon the upper portion of the latter when in collapsed condition.

7. A window screen comprising a substantially rectangular frame having a reticulated material mounted therein, a flange extended outwardly from said frame, a collapsible hood pivotally mounted in said flange and adapted to rest against one portion theerof when in callapsed condition, and means for securing said screen to the sash members of a window.

8. A window screen comprising a frame having a reticulated material mounted therein, a flange extended around said frame and forming a part thereof, a hood secured in said flange and adapted to be extended beyond the same, said hood resting upon one portion of the flange when in collapsed condition, and means carried by said frame for engagement with parallel window sashes of an open window to retain the frame in position within the window.

9. A window screen comprising an adjustable frame having a reticulated material mounted therein, a flange projecting from said frame, a collapsible hood pivotally mounted in said flange and adapted to be collapsed toward the reticulated material of the screen, and means carried by said frame for supporting the latter within an open window.

10. A window screen comprising a substantially rectangular metallic frame having a reticulated material mounted therein, a flange projecting from one face of said frame, a collapsible hood pivotally mounted in said flange, said hood being adapted to be collapsed in said flange, and supporting members mounted on said frame for engagement with the window sashes of a window to support the screen therein.

11. A window screen comprising a frame having a retriculated material mounted therein, extensible side members adjustably mounted on said frame, a flange extended from one side of said frame, a hood pivotally mounted in said flange and adapted to be collapsed therein, and hinged members carried by said frame for engagement with the sash members of a window to support the screen therein.

12. A window screen comprising a frame having a reticulated material mounted therein, a flange extended from one side of said frame, a collapsible hood pivotally mounted within said flange, and resilient supporting members hinged to said frame and adapted for engagement with the sash members of a window to support the screen therein.

13. A window screen comprising a frame having a reticulated material mounted there-

in, extensible side members for said frame, a flange extended from one edge of said frame, a hood pivotally mounted within said flange and adapted to be collapsed therein, and spring supporting members mounted on the upper edge of said frame for resilient engagement with the sash members of a window to retain the screen within said window beneath and outwardly of said sash members.

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

BURTON J. MARRIOTT.

Witnesses:
JAS. F. C. BARRETT,
STEPHEN BARRETT.