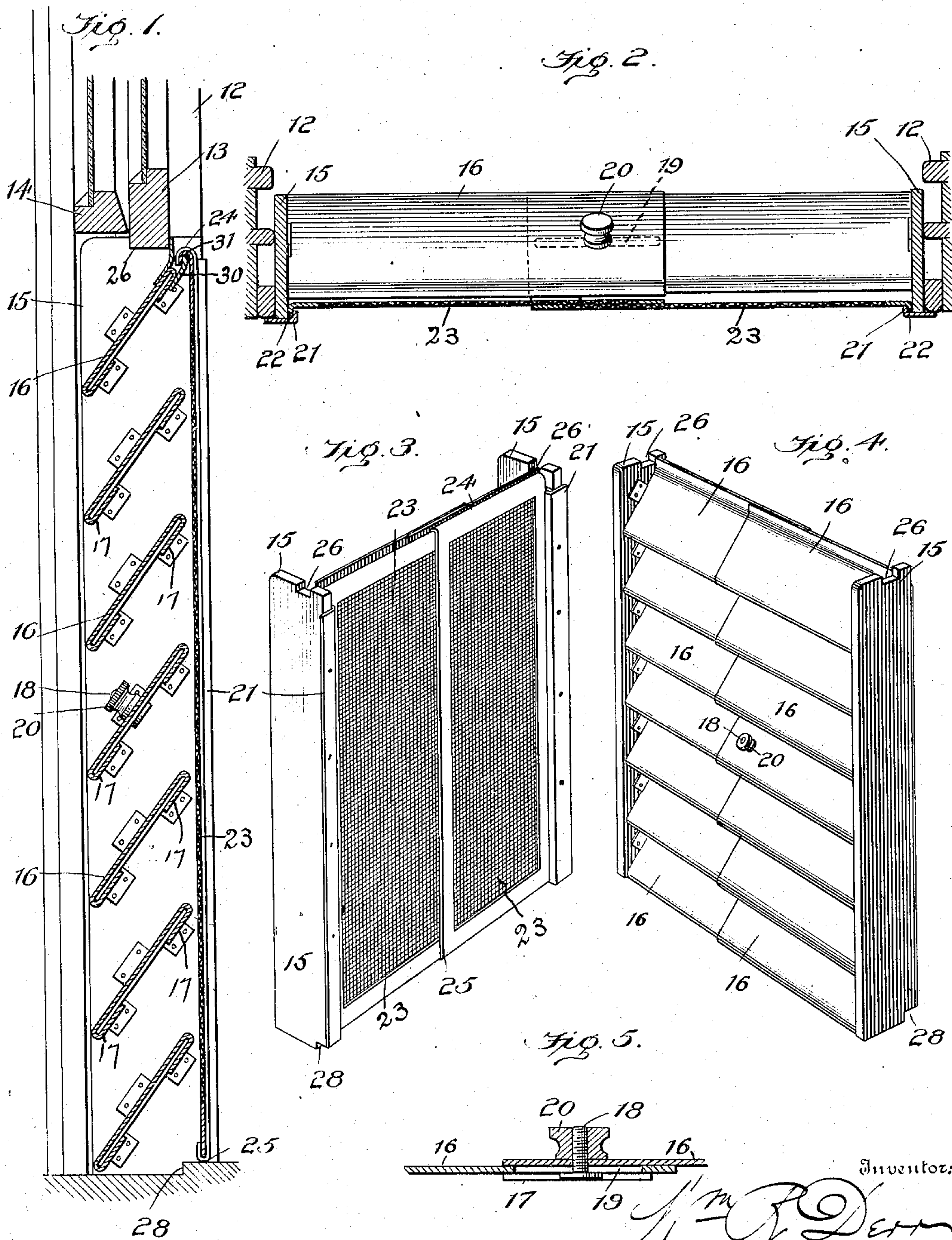


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WINDOW BLIND AND SCREEN.
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UNITED STATES PATENT OFFICE.

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WINDOW BLIND AND SCREEN.

No. 930,743.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, WILLIAM R. DERR, a citizen of the United States, residing in the city of Baltimore, State of Maryland, have invented or discovered certain new and useful Improvements in Window Blinds and Screens, of which the following is a specification, reference being had therein to the accompanying drawings.

10 This invention relates to blinds and screens for windows and which permit the windows to remain open, for the admission of air, during storms; the blinds serving to exclude bright sun-light and to keep the rain from beating in and the screens excluding insects.

15 The invention has for its object to provide an extensible or adjustable blind which may be made wider or narrower, so that it will be adapted to be fitted into windows of different widths, and with such extensible or adjustable blind is preferably combined an extensible or adjustable screen; as also to provide such a construction of an extensible blind, or of a combined extensible blind and screen, as will prevent rain from beating in around the same. To this end the blind is made in two sections each carrying what may be termed "half slats", one series of 20 which are provided with turned-over edges, for any desired parts of their lengths, these turned-over edges providing a series of guides in which the other series of half slats fit in such a manner that the blind may be made wider or narrower as may be desired. 25 The side pieces of the blind, which may be either wood or metal, are preferably provided with metallic strips or guides adapted to receive an extensible screen and hold the same in such a manner that it may be slid up and down, if desired, relative to the blind, the screen being made in two parts so as to be extensible or adjustable with the blind, in being fitted into a window of any particular width. The frame of the blind is of such construction that it may be securely held in place by the lower window sash beneath which it is inserted when the sash is raised.

30 In the accompanying drawings, Figure 1 is a vertical section showing a combined blind and screen in position in a window frame, and Fig. 2 is a horizontal section of the same. Figs. 3 and 4 are perspective views, from opposite sides, of the combined blind and screen removed from the window

frame. Fig. 5 is a detail view to show the fastening means for securing the two parts of the adjustable blind together.

Referring to the drawings, 12 denotes a window frame of any suitable or well-known construction; 13 denotes the lower sash, in raised or elevated position, and 14 denotes the upper sash. The blind comprises two side pieces 15 to which are attached, in any suitable manner, the "half slats" 16, which are preferably of sheet metal. Each of the half slats of one series is preferably provided with turned-over edges 17 forming a guide receiving the opposite or companion half slat which is loosely embraced by said guide so that the side pieces of the blind may be moved nearer to or farther from each other with the half slats carried by one side piece sliding freely in the said guides formed on the opposite half slats, the half slats thus overlapping each other so as to afford practically continuous slats in such a manner as will prevent rain from coming in at the window at the joints between the half slats.

Any suitable means may be employed for securing the adjustable or extensible blind in any desired position, such means, as herein shown, consisting of a suitable clamping bolt 18 mounted in one of the half slats and received in a slot 19 in the opposite half slat, such slot permitting lateral adjustment or extension of the blind, which, after being adjusted to the proper width, may have its two parts fastened together by means of a nut 20 with which the said clamping bolt is provided. Any desired number of clamping bolts may be provided, although one or two for each blind will probably be all that will be necessary, for practical use.

The side pieces 15 of the blind are provided with vertical metallic strips 21 the outer edges of which will preferably overlap the insides of the side strips of the window frame, and the inner edges of said metallic strips 21 are bent down to receive flanges 22 at the outer sides of the two-part adjustable screen 23, so that the said screen may be raised or lowered relative to the blind in the guides provided by the said strips 21. As will be seen, the inner edges of the strips 21 overlap the flanges 22, thereby maintaining the parts of the screen in engagement with or in proper position with respect to the side pieces of the blind as the latter are

moved inwardly and outwardly for purposes of adjustment.

The frames of the two parts of the adjustable screen preferably consist of strips of sheet metal to which the wire netting of the screen may be attached in any suitable manner, as by soldering or by folding over thin sheet metal in such a manner as to embrace the wire netting. One part or member of the adjustable screen is preferably provided at its top with a lip 24 and at its bottom with a similar lip 25, said lips forming grooved guides loosely overlapping the other screen member so that said members may be adjusted laterally relative to each other to form an adjustable or extensible screen which follows, in its adjusting or extending or collapsing movements, the extensible or adjustable blind on which it is mounted.

The side pieces 15 of the blind are preferably provided at their tops with notches 26 to receive the lower sash 13 which is let down into said notches after the blind has been inserted in place in the window frame, thereby locking the blind at its top beneath the window sash so as to hold it in place. The said side pieces of the blind are also preferably provided at their bottoms with notches 28 which fit against the window sill or the lower strip of the window frame in such a manner as to steady the bottom part of the combined blind and screen on the window frame.

To prevent rain from beating in beneath the raised lower sash 13, at the top of the blind, the upper half slats are provided with extensions or guard strips 29 which may be integral therewith or attached thereto in any suitable manner and arranged to overlap the bottom of the raised lower sash 13; while the vertical metallic strips 21 at the sides of the blind, and which overlap strips on the window frame, will prevent rain from beating in at the sides of the device.

The strips 21, it will be seen, perform the double function of excluding rain and of assisting in maintaining the blind in position, it being obvious that said blind will be prevented from falling inwardly partly by the notches 26 which engage the upper window sash and partly by the notches 28, engaging the sill, while it will be prevented from falling outwardly partly by the notches 26 and partly by the strips 21, said strips preventing the blind from slipping outwardly at the bottom.

To prevent the screen from slipping down out of the blind in the guideways in which it slides up and down freely, when the blind is out of the window, the blind is preferably provided with a stop consisting, as herein shown, of a strip 30, which is overlapped by lips 24 and 31 on the members of the extensible blind.

While it is preferred to use the extensible blind in combination with an extensible screen it will be understood that the extensible blind might be made and sold separately, or without the extensible screen, without departing from the essence of the invention itself, as the blind itself, without the screen, might be useful in many instances. It will also be understood that the invention is not to be limited to the details herein shown and described, but may be varied, within the province of mechanical skill, without departing from the essence thereof.

Having thus described my invention I claim and desire to secure by Letters Patent:

1. An extensible or adjustable blind, comprising two side pieces connected by slats of adjustable length, combined with a screen mounted on said blind for movement relative thereto.

2. An extensible or adjustable blind, comprising two side pieces provided with overlapping half slats, combined with a screen mounted on said blind for movement relative thereto.

3. A combined extensible or adjustable blind and screen, said blind and screen each comprising two parts fitted to move laterally relative to each other so as to be adapted to be inserted in windows of different widths, the extensible blind comprising side pieces and overlapping half slats, and the two parts of said screen being mounted on the side pieces of said blind for movement relative thereto.

4. The combination with an extensible or laterally adjustable blind, of an extensible or laterally adjustable screen provided with flanged edges, the frame of the blind provided with vertical guideways overlapping the flanged edges of said screen, whereby said screen may be raised or lowered relative to the said blind but will be maintained in engagement therewith.

5. An extensible blind comprising two side pieces each of which is provided with a series of half slats, one series of said half slats being furnished with guides in which the other series of half slats loosely fit, so that said half slats overlap, combined with a laterally adjustable screen fitted to and held in place on the side pieces of the said blind.

6. An extensible blind comprising two side pieces each of which is provided with a series of half slats, one series of said half slats being furnished with guides to which the other series of half slats loosely fit, so that said half slats overlap, combined with a laterally adjustable screen fitted to and held in place on the side pieces of the said blind, and with means for securing the two parts of the adjustable blind together.

7. The combination with an extensible or

laterally adjustable blind, of an extensible or laterally adjustable screen, the frame of the blind being provided with vertical guideways to which the screen is fitted so that said screen may be raised or lowered relative to the said blind, and interengaging devices on said blind and screen adjacent the upper end of the latter for preventing the said screen from slipping down out of the blind in said guideways when the said blind is out of the window.

8. A removable window blind adapted to be inserted beneath the lower sash of a window when raised and provided with means for retaining said blind in position, said means including notches on the lower part of said blind adapted to engage the window sill at one side and strips carried by said blind and adapted to engage the window frame at the opposite side.

9. A removable window blind adapted to be inserted beneath the lower sash of a window when raised and provided with means for retaining said blind in position, said means including notches on the upper part of said blind adapted to engage said lower sash.

10. A removable window blind adapted to be inserted beneath the lower sash of a window when raised, said blind comprising two side pieces and slats connecting said side pieces, said side pieces being provided at their upper ends with notches adapted to engage said lower sash and at their lower ends with notches adapted to engage the window sill.

11. An extensible or adjustable blind comprising two side pieces connected by slats of adjustable length, combined with an ad-

justable screen having a portion mounted on each of said side pieces.

12. An extensible blind comprising two side pieces and a plurality of slats of adjustable length and provided with means to prevent rain from beating in around the same, said means comprising a strip or strips carried by one of said slats and adapted to overlap a raised window sash, and strips carried by said side pieces and adapted to overlap strips on a window frame.

13. A ventilator including laterally adjustable sections having end pieces provided with vertical guide flanges, spaced slats carried by each section and provided with depending wings for attachment to the adjacent end pieces, the parts of one section having parts interengaging with the parts of the other section, and a sectional screen, the sections of which are secured to the rear face of the ventilator sections and movable with the latter.

14. A ventilator including laterally adjustable sections each having an end piece, spaced slats carried by the sections and provided with depending wings for engagement with the adjacent end pieces, the parts of one section having parts interengaging with the parts of the other section, and a screen supported in engagement with the ventilator and forming a closure for the rear of the latter.

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

WILLIAM R. DERR.

Witnesses:

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