No. 882,778. PATENTED MAR. 24, 1908.

F. BURCKHARDT.

WINDOW SCREEN.

APPLICATION FILED OCT. 10, 1907.

Fig. I.

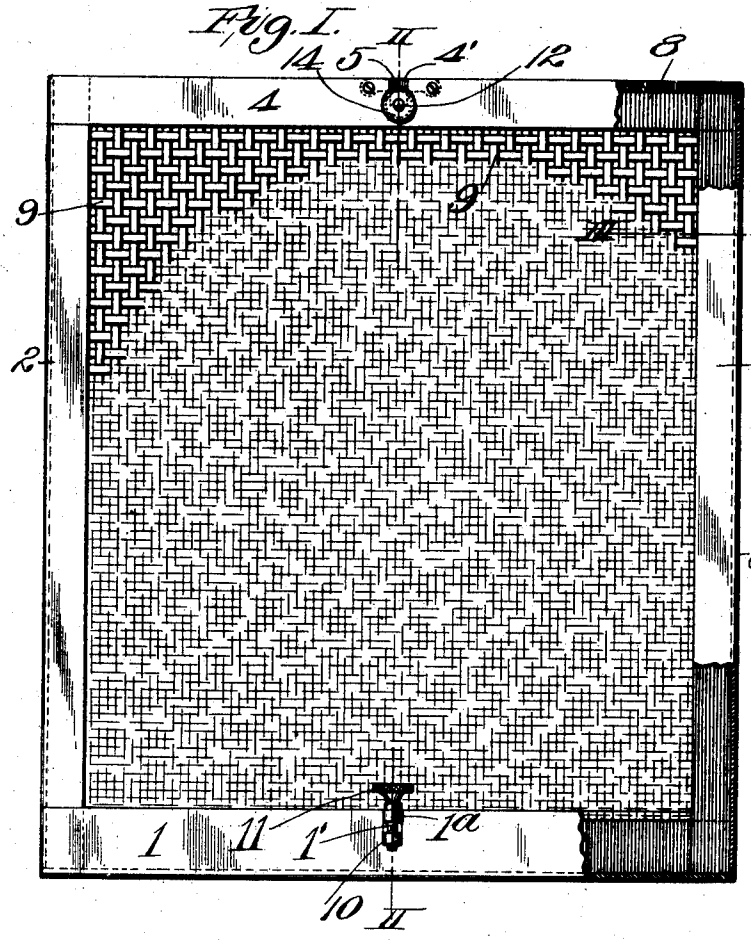


Fig. II.

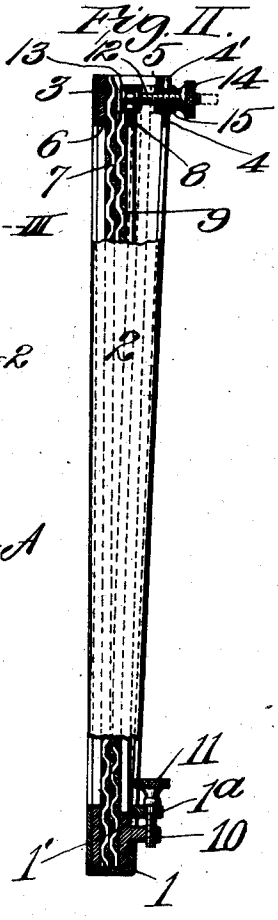


Fig. III.



Fig. IV.

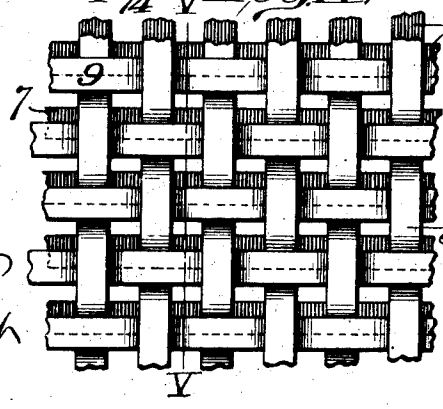


Fig. V.



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FREDERICK BURCKHARDT, OF ST. CHARLES, MISSOURI.

WINDOW-SCREEN.

No. 882,778. Specification of Letters Patent. Patented March 24, 1908.

Application filed October 10, 1907. Serial No. 396,784.

To all whom it may concern:

Be it known that I, FREDERICK BURCKHARDT, a citizen of the United States of America, residing at St. Charles, in the county of St. Charles and State of Missouri, have invented certain new and useful Improvements in Window-Screens, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification.

My invention relates to an improvement in window screens and it has for its object the construction of a double screen of this kind, whereby the amount of air and light entering into a room through a window containing the screen may be regulated, the ventilation of the room controlled, and view into the room obscured when so desired.

Figure I is an elevation of my screen with portions of its frame shown in section. Fig. II is in part an edge view and in part a vertical cross section taken on lines II—II, Fig. I. Fig. III is in part a top or plan view and in part a horizontal section taken on line III—III, Fig. I. Fig. IV is an enlarged elevation of portions of the fabric of my screen. Fig. V is a vertical section taken on line V—V, Fig. IV.

The casing A of my screen comprises a bottom channel bar 1, side channel bars 2 and outer and inner top bars 3 and 4. The bottom bar contains a vertical slot 1′ located in its inner wall and projecting from said wall above the slot is an arm 1^a containing a vertical hole. The side bars are preferably widened gradually from the bottom to the top of the casing. The inner top bar 4 contains a vertical open slot 4′ extending downwardly from the upper edge of the bar and the upper end of which is closed by a detachable guard strip 5.

6 designates the frame of a stationary screen that is immovably mounted in the casing A and has secured to it a sheet 7 of wire fabric made of flat wires or strips and produced in such manner as to present a flat surface at the inner face of the screen.

8 is the frame of a movable screen to which is secured a sheet 9 of wire fabric made of flat wires or strips and produced in such manner as to present a flat surface at the rear side of the screen facing the sheet of the fixed screen and adapted to fit closely thereagainst, both when the movable frame is at rest or moved along the face of said fixed screen. The frame of the movable screen is provided at its lower end with an arm 10 that extends through the slot 1′ in the bottom bar of the casing A beneath the arm 1^a.

11 is an adjustment screw having a smooth portion of its shank loosely fitted in the hole in the arm 1^a and its screw threaded portion disposed in the arm 10 of the movable screen frame. This screw has the utility of raising and lowering the movable screen within the casing A for the purpose of shifting the flat wires or strips of the movable screen so that they will close or partially close the mesh of said stationary screen to regulate the passage of air or light through the entire window screen or obscure a view therethrough. When, therefore, the screen is used in the window of a building, it provides for the admission of any desired amount of air through the entire extent of the screen and the screen may serve the purpose of an awning to exclude the hot rays of the sun during the heat of summer days.

To provide for ventilation of a room in a window of which my window screen is used, I incorporate in the screen the following parts: 12 is an adjustment screw having a head 13 secured in the top of the frame 8 of the movable screen and which extends through the slot 4′ in the inner top bar 4 of the casing A. 14 is a set nut on the adjustment screw 12 that is provided with an annularly grooved shank 15 which is loosely fitted in the slot 4′ and has engagement with the top bar 4. When said set nut is rotated on the screw 12 it acts to shift the screw and cause it to draw the movable screen away from the stationary screen so that air which passes through the stationary or outer screen may rise between the two screens and obtain ingress into the room when the movable screen is in a position to cause its wires to approximately prevent the passage of air and light through the two opposing sheets of wire fabric and obscure a view through the screen.

I claim:

1. A window screen comprising a stationary screen having flat wire fabric, and a movable screen having flat wire fabric opposing said flat wire fabric of the stationary screen and shiftable to close the mesh in the flat wire fabric therein.

2. A window screen comprising a stationary screen containing flat wire fabric having a flat face, and a movable screen containing flat wire fabric having a flat face opposing

the flat face of the flat wire fabric of the stationary screen; said movable screen being shiftable to close the mesh in the flat wire fabric of the stationary screen.

3. A window screen comprising a stationary screen containing flat wire fabric, and a movable screen containing flat wire fabric and opposing said flat wire fabric of the stationary screen; said movable screen being shiftable to close the mesh in the flat wire fabric of said stationary screen.

4. A window screen comprising a casing, a screen having flat wire fabric and secured to said casing, and a second screen having flat wire fabric and movably mounted in said casing and shiftable to close the mesh of the flat wire fabric in said first named screen.

5. A window screen comprising a casing, a screen having flat wire fabric and secured to said casing, a second screen having flat wire fabric and movably mounted in said casing and shiftable to close the mesh of the flat wire fabric in said first named screen, and means for moving said second screen, substantially as set forth.

6. A window screen comprising a casing, a screen having flat wire fabric and fixed to said casing, a second screen having flat wire fabric and loosely fitted within said casing, and means coöperable with said casing and movable screen whereby said movable screen may be moved relative to said first named screen and along the face thereof, substantially as set forth.

7. A window screen comprising a casing, a screen having flat wire fabric and fixed to said casing, a second screen having flat wire fabric and loosely fitted in said casing and operable in a part of said second screen to move the second screen along the face of the first named screen, substantially as set forth.

8. A window screen comprising a casing, a screen fixed to said casing, a second screen loosely fitted in said casing and having an arm projecting through a wall of the casing, and an adjustment screw loosely mounted in a part of said casing, and operable in the arm of said second screen for the purpose of shifting said second screen along the face of said first named screen, substantially as set forth.

9. A window screen comprising a casing, a screen fixed to said casing, a second screen movably fitted in said casing and opposing said first named screen, means for moving said second screen along the face of said first named screen, and means for moving said second screen away from the face of said first named screen, substantially as set forth.

10. A window screen comprising a casing, a screen fixed to said casing, a second screen movably fitted in said casing and opposing said first named screen, means for moving said second screen along the face of said first named screen, and means for moving said second screen away from the face of said first named screen; said last named means comprising adjustment members mounted in said casing and connected to said second screen, substantially as set forth.

11. A window screen comprising a casing, a screen fixed to said casing, a second screen movably fitted in said casing, and opposing said first named screen, means for moving said second screen along the face of said first named screen, and means for moving said second screen away from the face of said first named screen; said last named means comprising an adjustment screw connected to said second screen, and a set nut loosely mounted in said casing and fitted to said adjustment screw, substantially as set forth.

FREDERICK BURCKHARDT.

In presence of:
ERNST ROBYN,
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