J. W. FERNEAU.

VENTILATOR.

APPLICATION FILED JAN. 16, 1913.

1,070,792.

Patented Aug. 19, 1913.

Fig. 1.

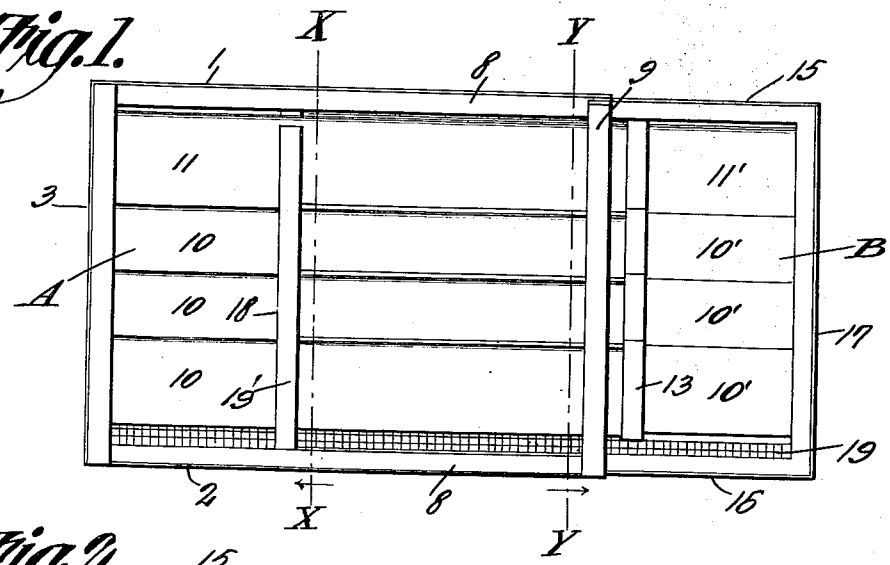



Fig. 2.

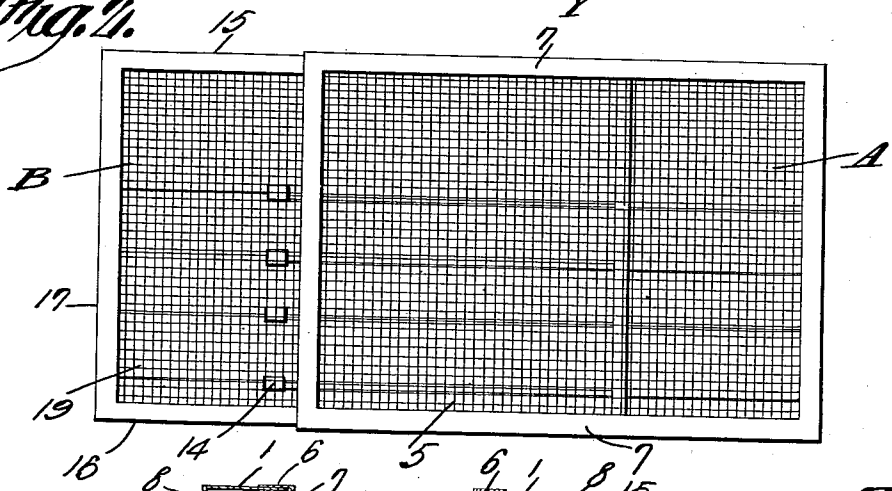



Fig. 3.

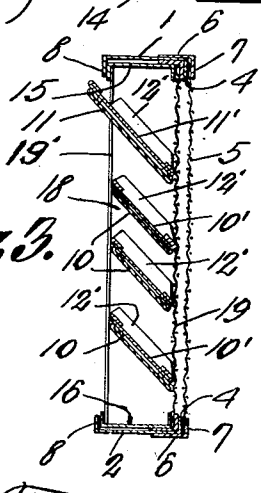



Fig. 4.

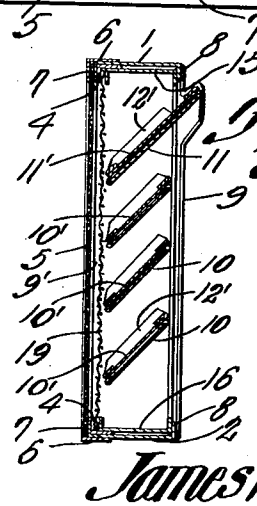



Fig. 5.

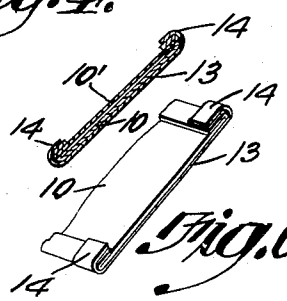



Fig. 6.

Witnesses

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# UNITED STATES PATENT OFFICE.

JAMES W. FERNEAU, OF CEDAR SPRINGS, MICHIGAN, ASSIGNOR OF ONE-HALF TO JOHN DE GROAT, OF CEDAR SPRINGS, MICHIGAN.

## VENTILATOR.

1,070,792. Specification of Letters Patent. Patented Aug. 19, 1913.

Application filed January 16, 1913. Serial No. 742,510.

*To all whom it may concern:*

Be it known that I, JAMES W. FERNEAU, a citizen of the United States, residing at Cedar Springs, in the county of Kent and State of Michigan, have invented a new and useful Ventilator, of which the following is a specification.

This invention relates to ventilators for windows.

The object is to provide a ventilator adapted to fit windows of varying widths.

Another object is to combine in a ventilator structure a screen to exclude insects, slats to exclude the bright sunlight and to keep the rain from beating in.

With the foregoing and other objects in view which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of the invention herein disclosed, can be made within the scope of what is claimed, without departing from the spirit of the invention.

In the drawings accompanying this specification and forming a part thereof, the preferable form of my invention is illustrated, in which—

Figure 1 is a front view of my improved ventilator. Fig. 2 is a rear view of the same. Fig. 3 is a cross sectional view taken on the line X—X of Fig. 1. Fig. 4 is a cross sectional view taken on the line Y—Y of Fig. 1. Figs. 5 and 6 are detail views of the ventilator slats.

Referring to the drawings in which similar reference numerals designate corresponding parts throughout the several views, the ventilator is made up of the portions A and B the said portions slidably engaged to thereby adapt the ventilator to the size or width of the window. The portion A is formed with side walls 1 and 2 and the end wall 3. The lower or outermost portion of the side walls 1 and 2 which when the ventilator is in position will constitute the top and bottom walls thereof are bent inward to form a flange 4 to the outer portion of which flange is secured the wire screen 5. In order to effectually cover the edges of the wire screen 5 a strip 6 is secured to the walls 1 and 2 and said strip 6 is provided with the inwardly extending flange 7 which fits over and effectually seals or hides the edges of the screen 5, it being understood in this connection that the screen 5 is held to the flange 4 and the strip 6 and flange 7 are held securely thereover by means of rivets or other equivalent means. In order to have the inner side of the frame or portion A present a neat appearance and furthermore to do away with any sharp or jagged edges, the walls 1 and 2 are overturned or flanged as at 8, the same being true also of the end wall 3. That portion of the frame remote from the wall 3 is left open but is suitably braced by means of the upper strip 9 and the lower strip 10 to which is secured one edge of the wire screen 5 being bent double in order to receive the said wire therein and make a neat and effective juncture therewith. In the present drawings there has been illustrated four longitudinally extending slats which are preferably inclined as shown in Figs. 3 and 4 and are adapted to prevent any rain or snow from beating through the ventilator. The portions A and B of the ventilator are provided with the same number of slats and the slats are adapted to slide one above the other and held in position thereby. The portion A is provided with the slat 10, the uppermost slat 11 being elongated in a transverse direction so as to extend out and beyond the inner flange portion 8 of the top and bottom walls. Each of the said slats is provided with the flanged end portions, not shown, which however are similar to the flanged end portions 12′ of the slats 10′ hereinafter described. The flanged end portions of the slats are securely soldered or otherwise rigidly held to the end wall 3. The ends of the slats remote from the end walls 3 are provided with the transverse strip 13, which strip is provided with the spaced lips 14 which slidably engage the corresponding slats of the portion B of the ventilator. From the foregoing it will be apparent that the slats are rigidly secured at one end to the end wall 3, their other end being entirely free and adapted to slidably engage the corresponding slats of the section or portion B.

The portion of the ventilator or section designated generally at B is provided with the top and bottom walls 15 and 16 and the end walls 17 and 18. The construction of the walls 15, 16 and 17 is similar to that already described, of the walls of the section A. The screen 19 is held between two retain-

ing flanges similar to those 4 and 7 of the previously described section. The inner end wall 18 of the section B is provided with the flange 19′ beneath which is adapted to slide the slats 10, the end wall 18 being provided with suitable slots through which these slats may extend. The slats 11 being somewhat larger than the slats 10, it is necessary to provide an aperture in the flange 19′ through which the said slats may extend. The slats of the section B corresponding to those of sections A are designated as 10′ and 11′. The said slats 10′ and 11′ fit beneath the overhanging lip 14 of the strip 13 of the slats 10 and 11 and are slidably held thereby. These ends of the slats 10′ and 11′ are provided with flanges 12′. These flanges 12′ are securely held by solder or other suitable means to the end wall 18 of the section B. The said slots 10′ and 11′ are positioned adjacent the slotted apertures in the end wall 18 through which the slats 10 and 11 extend.

From the foregoing description it will be apparent that the entire construction will be rigid and durable. Furthermore the two frames of the portions A and B slidably engage each other which allows the ventilator to be adjusted according to the width of the window in which the ventilator is to be positioned. Furthermore, that the frame has been provided with suitable flanged edges which allows the ventilator to be easily handled. Furthermore that the said ventilator will be neat and attractive in appearance. The number of the longitudinal slats of the ventilator is of course dependent upon the size thereof and I do not wish to be limited to any particular number. The direction in which the slats are to point is also a matter of choice, it being understood that the slats may either point inward and downward or inward and upward, according to the exposure or location of the window or air vent in which the ventilator is positioned.

Having thus fully disclosed the construction and operation of my improved device, what I claim to be new and original with me is:—

1. A ventilator comprising the sections A and B, the section A comprising two sides and an end wall, slats rigidly secured to said end wall, said slats provided at their ends remote therefrom with overhanging lips, the section B comprising side walls and end walls, one of said end walls provided with slots therein through which extend the slats of section A, slats secured to the end walls of section B and slidably engaged by the overhanging lips of the corresponding slats of section A, and suitable screens secured to the outer portions of the said sections.

2. A ventilator including the lateral adjustable sections A and B, the section A comprising flanged frame side walls and an end wall, a screen secured to the outer flange portion of said frame, a strip secured to said outer portion of said frame adapted to hide said screen ends, slats secured at one end to said end wall, their remote ends therefrom provided with overhanging lips, the section B comprising side and end walls, slats secured at their ends to said end walls and slidably engaged by said overhanging lips, one of said end walls of section B provided with suitable slots through which are adapted to extend the slats of section A.

3. A ventilator comprising the slidable sections A and B, the section A comprising side walls and an end wall, their remote ends therefrom provided with a transverse strip with overhanging lips, the section B comprising side and end walls, one of said end walls provided with suitable slots through which extend the slats of section A, slats secured to the end walls of section B with one of their ends juxtaposed to said slots, said last mentioned slats slidably engaged by said overhanging lips, said sections A and B provided with inwardly extending flanges, screens secured to the outer portion of said sections and to said flanges, a strip secured to the outer portion of said sections provided with inwardly extending flanges adapted to fit over said screens.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

JAMES W. FERNEAU.

Witnesses:
MILES MULFORD,
JOHN T. POMEROY.