

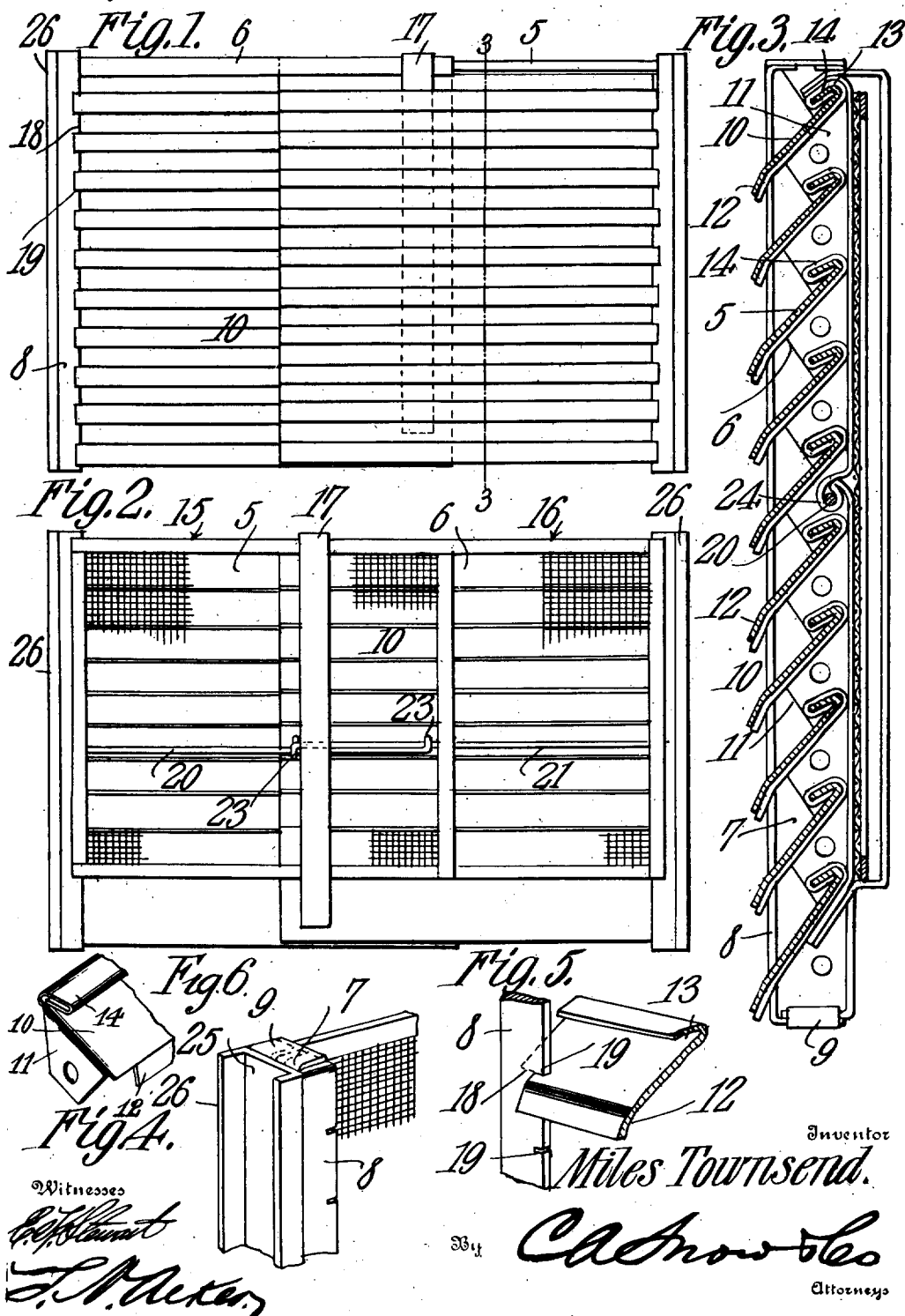
M. TOWNSEND.

VENTILATOR.

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UNITED STATES PATENT OFFICE.

MILES TOWNSEND, OF RIVERSIDE, CALIFORNIA.

VENTILATOR.

No. 903,840.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, MILES TOWNSEND, a citizen of the United States, residing at Riverside, in the county of Riverside and State of California, have invented a new and useful Ventilator, of which the following is a specification.

This invention relates to ventilators for buildings and other structures.

10 The object of the invention is to provide a ventilator capable of being readily positioned in a window or wall opening and having a screen associated therewith thereby to prevent the entrance of rain, leaves, insects and
15 the like.

A further object of the invention is to provide a wall or window ventilator including a plurality of laterally adjustable sections each provided with spaced slats having interengaging parts thereby to permit the ventilator
20 to be adjusted to fit windows or air vents of different sizes.

A further object is to provide means for limiting the lateral or expansible movement
25 of the ventilating sections, and means for retaining the screen in engagement with the slats when said sections are adjusted.

A further object is to provide improved means for securing the slats in position on
30 the supporting frame, said slats having their free ends deflected laterally to form longitudinal strengthening lips.

Further objects and advantages will appear in the following description, it being
35 understood that various changes in form, proportions and minor details of construction may be resorted to within the scope of the appended claims.

In the accompanying drawings forming a
40 part of this specification: Figure 1 is a front elevation of a combined ventilator and screen constructed in accordance with my invention. Fig. 2 is a rear view of the same.
45 Fig. 3 is a vertical sectional view taken on the line 3—3 of Fig. 1. Fig. 4 is a detail perspective view of one corner of the supporting frame. Fig. 5 is a similar view showing the
50 manner of fastening the slats to the side bars of the sectional frame. Fig. 6 is a perspective view of one end of one of the slats.

Similar numerals of reference indicate corresponding parts in all of the figures of the drawings.

55 The improved ventilator forming the subject matter of the present invention includes a substantially rectangular frame preferably

formed in two sections 5 and 6, said sections being adjustable laterally to fit windows of different sizes, or air vents, when the ventilator is inserted in a wall. Each section is
60 provided with an end piece 7 preferably formed of metal and having its adjacent longitudinal edges bent laterally to form parallel retaining flanges 8, the metal forming the end pieces and flanges being bent inwardly in
65 over-lapped relation and soldered or otherwise secured together, as indicated at 9. Secured to the end piece 7 of each ventilator section are a plurality of spaced inclined
70 slats 10 having their fixed ends provided with depending attaching wings or ears 11 which bear against the adjacent end piece 7 and are soldered, riveted or otherwise rigidly
75 secured thereto, as shown. The lower edges of the slats 10 are bent downwardly to form lips 12 which serve to reinforce and strengthen the slats and also to prevent the rain from
80 beating in between the slats in rainy or inclement weather. The upper longitudinal edges of the slats on the section 6 are bent upon themselves to form guiding grooves 13
85 adapted to slidably engage the over-hanging guide flanges 14 formed on the upper edges of the slats of the ventilator section 5 thereby to retain said slats in engagement with
90 each other, when the sections are adjusted laterally to fit a window, wall vent or other opening. Extending longitudinally of the ventilator at the rear face thereof is a screen
95 also preferably formed in two sections 15 and 16, each screen section comprising a substantially rectangular frame one edge of which is soldered or otherwise rigidly secured to the end piece 7 of the adjacent ventilator section, as shown. The inner ends of the screen
100 sections 15 and 16 are over-lapped and retained in engagement with each other by means of a strap or yoke 17 secured to the ventilator section 6 and preferably spaced from the rear face thereof to permit the
105 passage of the screens when adjusting the ventilator thereon. The inner or fixed ends of the slats 10 are each cut away at 18 and the adjacent edge of the metal at said cut away portion inserted in a slit or kerf 19 formed in the
110 adjacent flange 8 thereby to maintain the slats in spaced relation to each other and also to add additional strength and rigidity to the ventilator. As a means for limiting the lateral movement of the ventilator sections suitable rods 20 and 21 are secured thereto with their outer ends provided with

terminal eyes or loops 23 which encircle the adjacent rod and permit said rods to telescope when the sections are adjusted. One wall of the strap or yoke 17 is bent to form an intermediate eye or loop 24 which serves as a guide for the adjustable rod sections and prevents accidental displacement of the same. Secured to the end pieces 7 of the ventilator sections are plates 25 provided with vertically disposed guide flanges 26 for engagement with a window frame so that the ventilator may be adjusted vertically of said frame. It will thus be seen that when the ventilator sections are adjusted laterally to fit a window, air vent or other opening the screen sections 15 and 16 will also be adjusted so as to form a complete closure for the rear face of the ventilator regardless of the adjustment of the same, thus effectually preventing the entrance of mosquitos and other insects to the interior of the room.

Attention is called to the fact that the guiding grooves not only serve to accommodate the flanges 13 but also serve to reinforce and strengthen the slats as well as to prevent the entrance of rain between the slats to the interior of the building or other structure.

While the device is principally designed for attachment to windows it is obvious that the same may be used with equally good results as a wall ventilator or in connection with doors, transoms, hatch-ways or wherever a device of this character is found desirable.

From the foregoing description it is thought that the construction and operation of the device will be readily understood by those skilled in the art and further description thereof is deemed unnecessary.

Having thus described the invention what is claimed is:

1. A ventilator including laterally adjustable sections provided with spaced superposed slats, the upper longitudinal edges of the slats of one section being provided with guiding grooves and the upper longitudinal edges of the slats of the adjacent section being formed with over-hanging flanges adapted to slidably engage said grooves.

2. A ventilator including laterally adjustable sections having spaced inclined slats secured thereto the longitudinal edges of which are deflected downwardly to form longitudinally disposed reinforcing lips, the parts of

one section having parts interengaging with the parts of the other section.

3. A ventilator including laterally movable sections each provided with spaced inclined slats, the lower longitudinal edges of which are deflected downwardly to produce reinforcing lips, the slats of one section overlapping the slats of the adjacent section, a screen secured to the rear of the ventilator and adjustable laterally with the sections, and means for limiting the lateral movement of said sections.

4. A ventilator including laterally adjustable sections each provided with an end piece having laterally extending flanges the walls of which are formed with spaced recesses, spaced slats carried by each section and having their inner ends cut away for engagement with the walls of the recesses, the parts of one section having parts interengaging with the parts of the other section, and a sectional screen combined with the ventilator and forming a closure for one face thereof.

5. A ventilator including laterally adjustable sections, spaced slats carried by each section and having their inner ends overlapped and provided with interengaging parts, a yoke secured to the rear face of one of said sections and provided with an intermediate loop, telescopic rod sections secured to the ventilator sections and extended through said loop, and screen sections adjustable with the ventilator sections and having their inner ends seated in the yoke.

6. A ventilator including laterally adjustable sections, spaced slats secured to one of said sections and having their upper longitudinal edges bent to form guiding grooves and their lower edges deflected downwardly to produce longitudinal reinforcing lips, similar slats carried by the mating section and provided with over-hanging flanges for sliding engagement with the grooves of adjacent slats, an adjustable screen combined with the ventilator and forming a closure for one face thereof, and means for limiting the lateral movement of the slats, and screen, respectively.

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

MILES TOWNSEND.

Witnesses:

S. L. PILLAR,

WM. T. DENSMORE.