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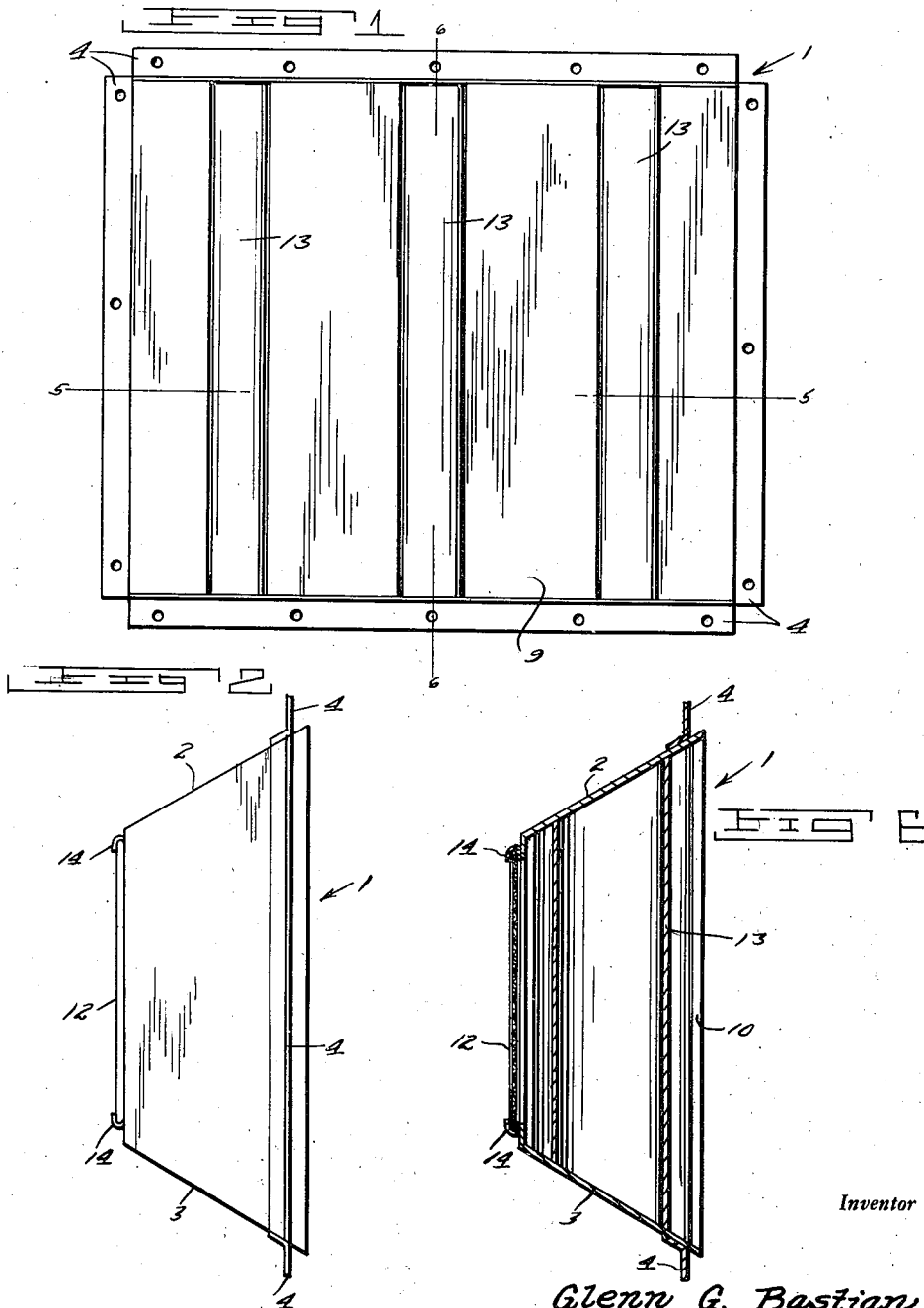
G. G. BASTIAN

2,356,735

VENTILATOR

Filed Jan. 15, 1943

2 Sheets-Sheet 1



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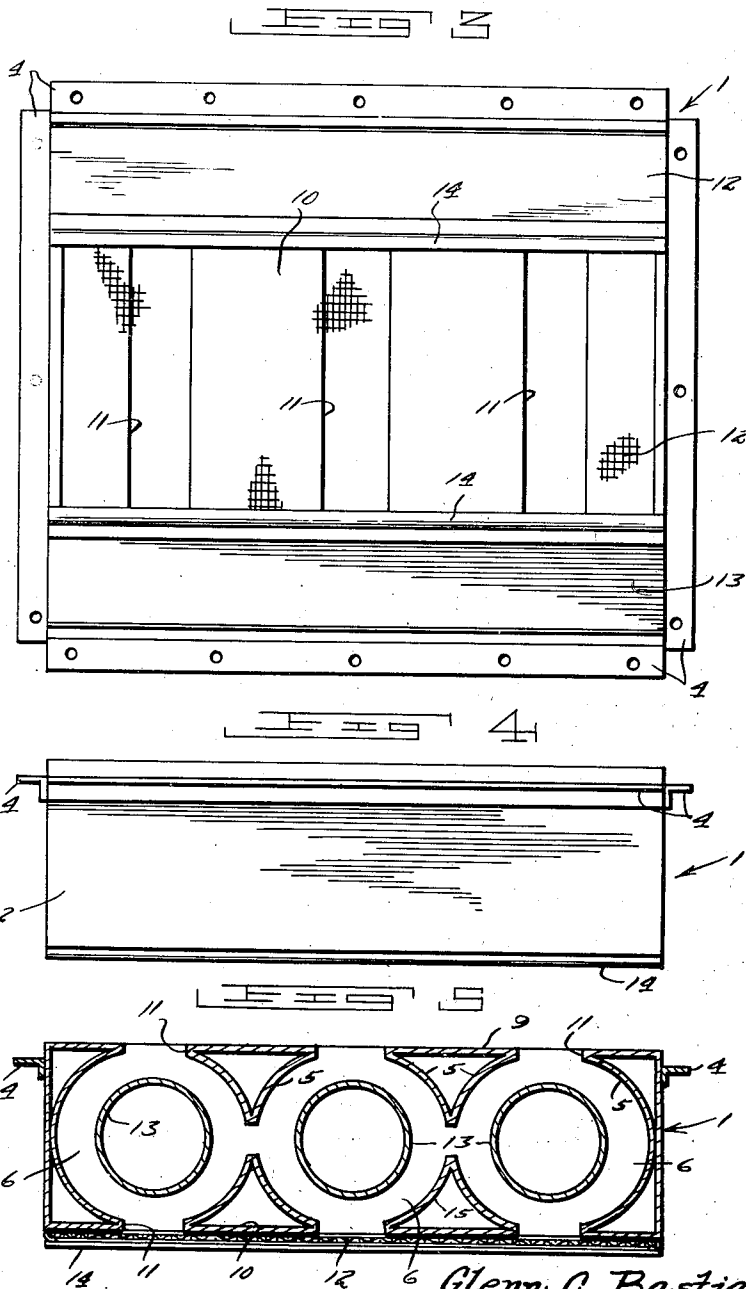
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UNITED STATES PATENT OFFICE

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VENTILATOR

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Application January 15, 1943, Serial No. 472,512

4 Claims. (Cl. 98—37)

The present invention relates to new and useful improvements in ventilators, and has for its primary object to provide, in a manner as hereinafter set forth, a device of this character comprising a novel construction and arrangement whereby vision therethrough will be completely prevented while permitting the passage of a maximum flow of air.

Another very important object of the invention is to provide a ventilator of the aforementioned character wherein draft will be reduced to a minimum.

Other objects of the invention are to provide a ventilator of the character described which will be comparatively simple in construction, strong, durable, highly efficient and reliable in use, compact, attractive in appearance, and which may be manufactured and installed at low cost.

All of the foregoing and still further objects and advantages of the invention will become apparent from a study of the following specification, taken in connection with the accompanying drawings wherein like characters of reference designate corresponding parts throughout the several views, and wherein:

Figure 1 is an elevational view of a ventilator constructed in accordance with the present invention.

Figure 2 is a view in end elevation of the device.

Figure 3 is an elevational view, looking at the inner side of the ventilator.

Figure 4 is a plan view.

Figure 5 is a view in horizontal section, taken substantially on the line 5—5 of Figure 1.

Figure 6 is a vertical sectional view, taken substantially on the line 6—6 of Figure 1.

Referring now to the drawings in detail, it will be seen that the embodiment of the invention which has been illustrated comprises a case 1 of suitable dimensions and material. The case 1 includes an oppositely inclined top and bottom 2 and 3, respectively. Apertured attaching flanges 4 are provided on the case 1.

The case 1 has mounted therein vertical walls or partitions 5 extending between the top and bottom 2 and 3 of said case and formed to provide cylindrical communicating chambers 6. The outer and inner walls 9 and 10 of the case 1 have formed therein vertically elongated air passages 11 which communicate with the cylindrical chambers 6. A screen 12 covers the openings 11 in the wall 10.

Mounted in the cylindrical chambers 6 and extending vertically between the top and bottom

2 and 3 of the case 1 are tubular baffles 13. As illustrated to advantage in Figure 5 of the drawings, the tubular baffles 13 are spaced concentrically from the walls of the cylindrical chambers 6.

It is thought that the manner in which the ventilator functions will be readily apparent from a consideration of the foregoing. Briefly, the air enters the case 1 and flows freely around the tubular baffles 13 in the cylindrical chambers 6. The construction and arrangement is such as to offer comparatively little resistance to the free flow of the air. However, it will be observed that the tubular baffles 13 are located directly between the inlet and outlet passages 11 and, further, that the diameter of said tubular baffles is greater than the width of said passages. Thus, vision through the device is completely obstructed. The screen 12 is removably mounted in horizontal guides 14 which are provided therefor on the case 1.

It is believed that the many advantages of a ventilator constructed in accordance with the present invention will be readily understood, and although a preferred embodiment of the device is as illustrated and described, it is to be understood that changes in the details of construction and in the combination and arrangement of parts may be resorted to which will fall within the scope of the invention as claimed.

What is claimed is:

1. A ventilator of the character described comprising a case including spaced inner and outer walls having a series of vertically elongated, air passages therein arranged in aligned pairs, and tubular baffles mounted vertically in the case, one between each pairs of aligned passages, said baffles being of a larger cross sectional area than said air passages.

2. A ventilator comprising a case including inner and outer walls having vertically elongated air passages therein, vertical partitions in the case defining cylindrical chambers communicating with the passages, and tubular baffles mounted vertically in the chambers in spaced, concentric relation to the walls thereof and between the aligned passages, said baffles being of a larger cross sectional area than said air passages.

3. A ventilator of the character described comprising a case including spaced, opposed walls having vertically elongated, aligned air passages therein, a screen mounted on one of the walls over the passages therein, vertical partitions in the case providing cylindrical chambers

communicating with the passages, and tubular baffles mounted vertically in the chambers between the aligned passages, said tubular baffles being spaced concentrically from the walls of the chambers, said baffles being of a larger cross sectional area than said air passages.

4. A ventilator comprising a case including inner and outer walls having vertically elongated air passages therein, vertical partitions in the case defining cylindrical chambers commu-

5 communicating with the passages, and tubular baffles mounted vertically in the chambers in spaced concentric relation to the walls thereof and between the aligned passages, said baffles being of a larger cross sectional area than said air passages, certain of said vertical partitions being provided with passages affording communication between the cylindrical chambers intermediate the inner and outer walls.

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