

Dec. 5, 1944.

C. LEVINSEN
VENTILATOR LOUVER ELEMENT

2,364,378

Filed Sept. 3, 1942

FIG. 1.

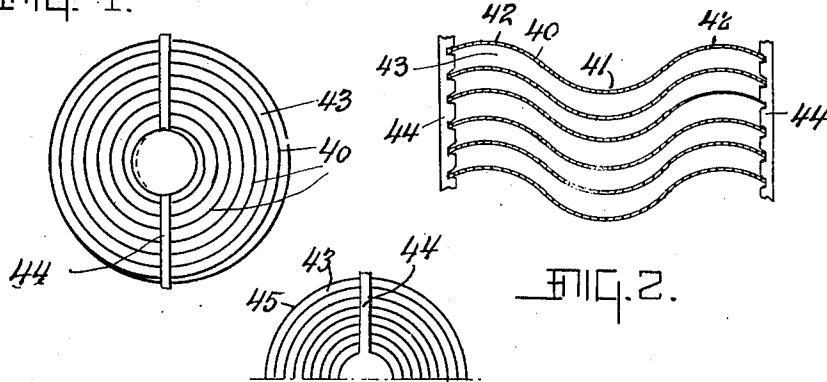


FIG. 4.

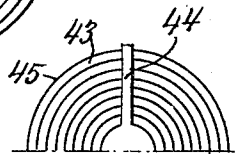
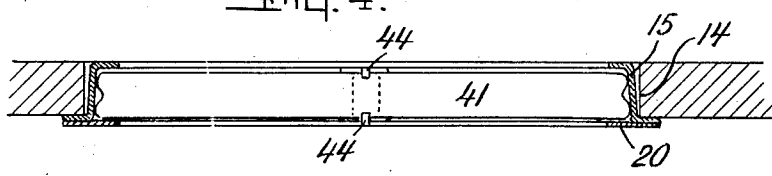


FIG. 3.

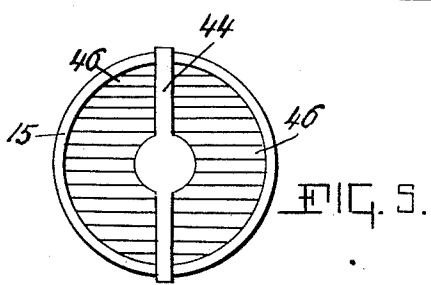


FIG. 5.

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2,364,378

VENTILATOR LOUVER ELEMENT

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Application September 3, 1942, Serial No. 457,111

1 Claim. (Cl. 98—121)

The object of this invention is to provide novel and improved forms of structural louver elements to be used in the manufacture of ventilators for portholes in ships for blackout purposes whereby to eliminate labor in constructing the ventilators and facilitating the production thereof. In the accompanying drawing illustrating the invention

Fig. 1 is a detail view of a louver element which is made from a strip of material which is wound to form a spiral, the strip having a wavy cross section.

Fig. 2 is a cross sectional view of some of the adjacent windings of the spiral in Fig. 1.

Fig. 3 shows the spiral element in Fig. 1 used in a porthole ventilator.

Figs. 4 and 5 show the use of wavy strip material in other forms of louver elements for ventilators.

Fig. 1 illustrates a louver element made from strip material which is wound to form a spiral with circular circumference. The metal strip is marked 40. It is of wavy cross section as shown in Fig. 2 having a central concave portion 41 and two outer convex portions 42, 42. Any other suitable wavy formation may be used. The windings of the spiral are spaced to form tortuous air channels 43 and at the same time overlap to

exclude light. The windings are held in predetermined spaced relation by spacing members 44. The spiral element is placed within the porthole ring casing 15 in the porthole opening 14 and suitably secured. In Fig. 3 the strip material 40 is used in concentric rings 45 and in Fig. 5 the strip material is cut into bars 46 placed in parallelism within the ring 15.

The louver element shown in Figures 5 to 8 may be produced by passing the strip of material between correspondingly shaped complementary rollers in a manner known to the art of rolling mills and machinery for converting flat material into material of undulating formation.

I claim:

A louver element for porthole ventilators consisting of a continuous strip of material of undulating cross section wound to form a spiral and spacing members engaging the edges of the convolutions of the spiral on both sides thereof to space the convolutions in predetermined parallel relation with the convex portions of each convolution overlapping the concave portions of an adjacent convolution to provide tortuous air channels between the convolutions and exclude the passage of light through said ventilator.

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