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WINDOW VENTILATOR

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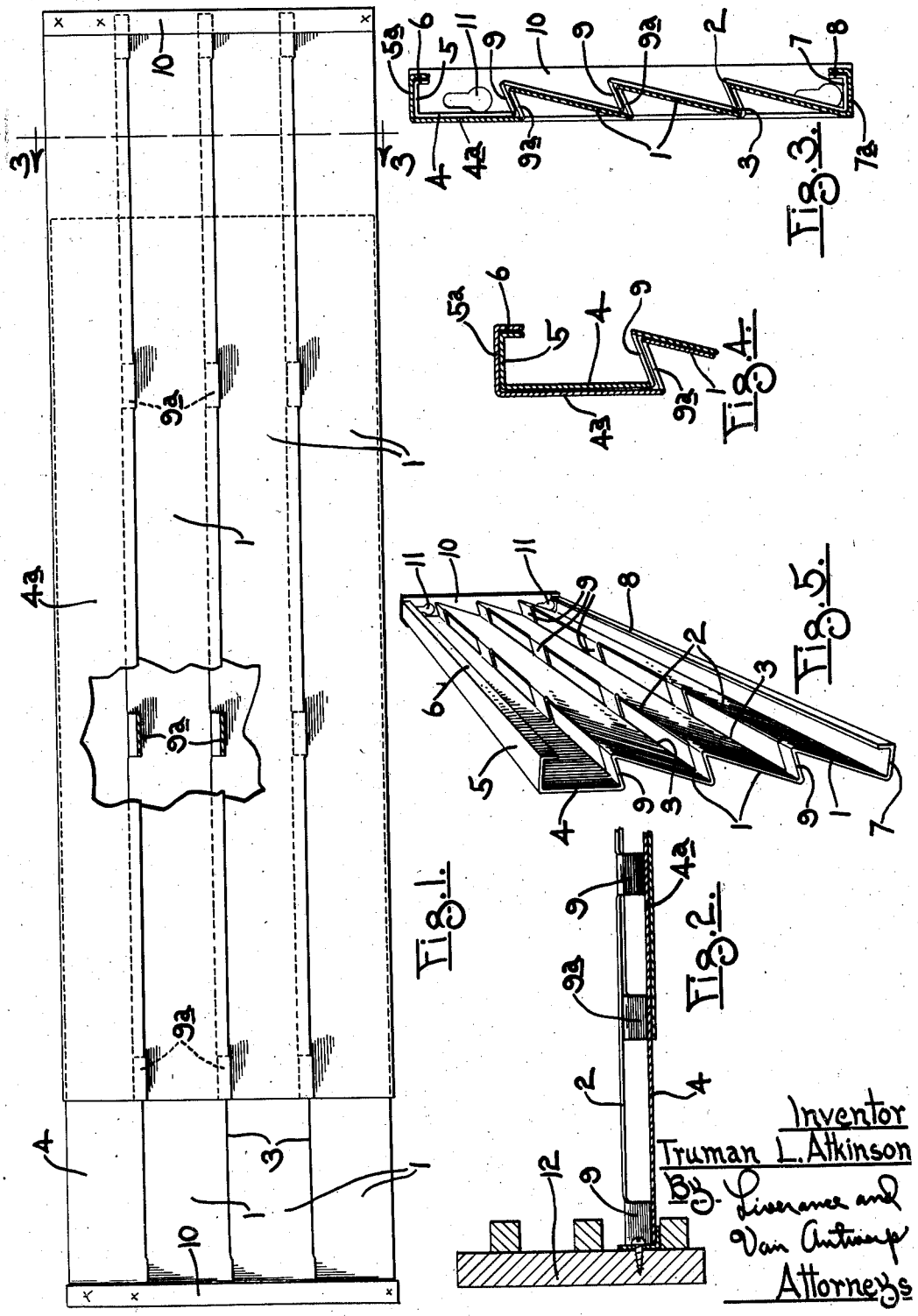


Fig. 1.

Fig. 2.

Fig. 3.

Fig. 4.

Fig. 5.

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WINDOW VENTILATOR

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2 Claims. (Cl. 98—99)

This invention relates to window ventilators, and is of the general class which is used to fit into various sized windows, and which are utilized for the prevention of draft by deflecting incoming air.

The principal object of the invention is the provision of a ventilator which has the appearance of the well-known Venetian blinds.

Another important object of the invention is the provision of a novel structure which may be stamped from a single length of material in such a way that the connecting portions between the horizontal slats will not be visible from the ordinary point of view.

Other objects and purposes of the invention will appear more fully as the description proceeds.

To the accomplishment of the foregoing and related ends said invention, then, consists of the means hereinafter fully described and particularly pointed out in the claims.

The annexed drawing and following description set forth in detail certain means for carrying out my invention, said means constituting, however, but one of various ways in which the principle of the invention may be employed.

In said annexed drawing wherein like reference numerals refer to like parts throughout the various views:

Fig. 1 is a front elevational view of the ventilator of my invention with a section broken away to more clearly disclose the structure thereof.

Fig. 2 is a fragmentary horizontal section through the ventilator showing the manner in which it may be attached to the side of a window.

Fig. 3 is a vertical section taken substantially on the plane of line 3—3 in Fig. 1.

Fig. 4 is a somewhat enlarged fragmentary vertical section showing a detail of construction, and

Fig. 5 is a perspective view of one of the telescoping members.

While I have preferred to show, for purposes of illustration, the adjustable ventilator of my invention as being composed of two similar parts having a telescoping connection therebetween, it is to be understood that the same result and appearance may be obtained by the use of more than two sections or merely a single section. In any event each section will be similarly constructed and made in the same way.

Referring now more particularly to the drawing, it will be noted that a section or member is composed of a plurality of elongated slats 1 which are angularly disposed with respect to the vertical plane and each one of which is of such a height that the upper edges 2 and lower edges 3 of adjacent slats will have a spaced overlapping relation. The upper front side of this section has a vertical portion 4, which is then provided with a rearwardly extending flange 5 terminating in the downturned flange 6. The bottom edge of the lowermost slat 1 extends rearwardly to form the flange 7 and terminates in the upwardly extending flange 8.

A plurality of webs 9 are provided in horizontally spaced apart relation each one of which connects the upper edge 2 with the lower edge 3 of adjacent slats 1. These webs 9 are preferably formed integral with the slats which they connect, however, if so desired, it is understood that they may be made separately and secured to the slats by means such as welding. However, I have found it more economical and expedient to form this part of the ventilator of a single sheet of material so that each section may be stamped to provide the various parts just described.

If two sections are to be provided, one of each is provided with a bracket 10 which abuts against the end of the section and has a flange at its forward side which is secured to the front side of the section by welding or other desired means. These end brackets act to brace and stiffen each member. The openings 11 may be provided if desired in each end bracket so that they may be rigidly secured to the sides 12 of a window by nails or screws.

If the ventilator is to be made up of a single section, it will be provided at each end with a bracket 10, but in the case of two telescoping sections, there will be one at an end of each section.

The outer section, while being formed in the same manner and being provided with the same parts, will be of such a size that the upper flange 5a and the lower flange 7a will fit snugly around the upper and lower flanges 5 and 7 respectively of the first or inner section. While it is permissible for the slats of the two sections to touch each other during the sliding movement to adjust the ventilator, it is quite necessary that the webs 9 of one section be prevented from having any contact with the webs 9a of the other section and for this reason the structure is made in the manner shown in Fig. 4. Here it will be seen that the front vertical portion 4 of the inner telescoping member stops sufficiently short of the lower edge of the outer member 4a so that the webs 9 are spaced from the webs 9a. This is

true with each slat throughout the height of the ventilator and insures a smooth telescoping movement between the two sections.

With this construction it will be evident that incoming air will be deflected downwardly, and at the same time the spaced overlapping relation of the adjacent slats is such that it will give the outward appearance of a Venetian blind, and since the upper edge of one slat will be rearwardly of and above the lower edge of an adjacent slat, the connecting webs will not be visible by viewing the ventilator in the ordinary manner. The device is neat in appearance, is economical to manufacture by reason of the fact that it can be stamped from a single sheet of material, and operates satisfactorily in practice.

Other modes of applying the principle of my invention may be used instead of the one here described, change being made as regards the structure herein disclosed provided, however, that the means stated by any of the following claims or the equivalent of such stated means be employed.

I, therefore, particularly point out and distinctly claim as my invention:

1. An adjustable window ventilator comprising two or more similar members, each member including a plurality of angularly disposed elongated slats, the upper edge of each slat being spaced rearwardly from and above the lower edge of the slat next above it, horizontally spaced apart webs connecting said edges together, and channels at the upper and lower edges of each member of such size as to interlock so that said members will be slidable one within the other and the corresponding slats and webs of each member will slide adjacent each other.

2. The combination of elements defined in claim 1, wherein the space between the webs in each member is longer than the width of each web.

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