March 10, 1964 A. J. RUBERA 3,124,055

WINDOW VENTILATOR

Filed Nov. 29, 1962

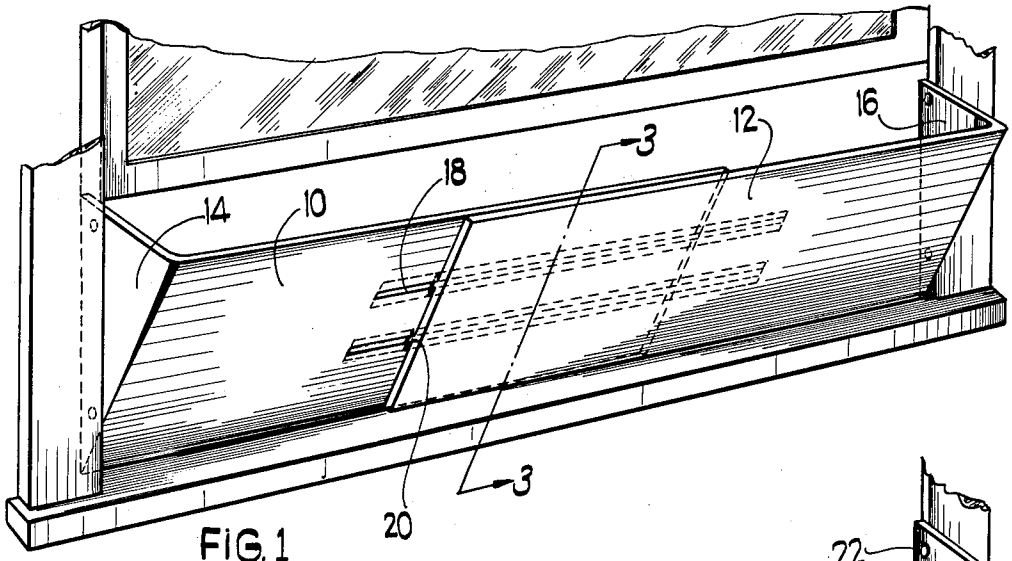

FIG. 1

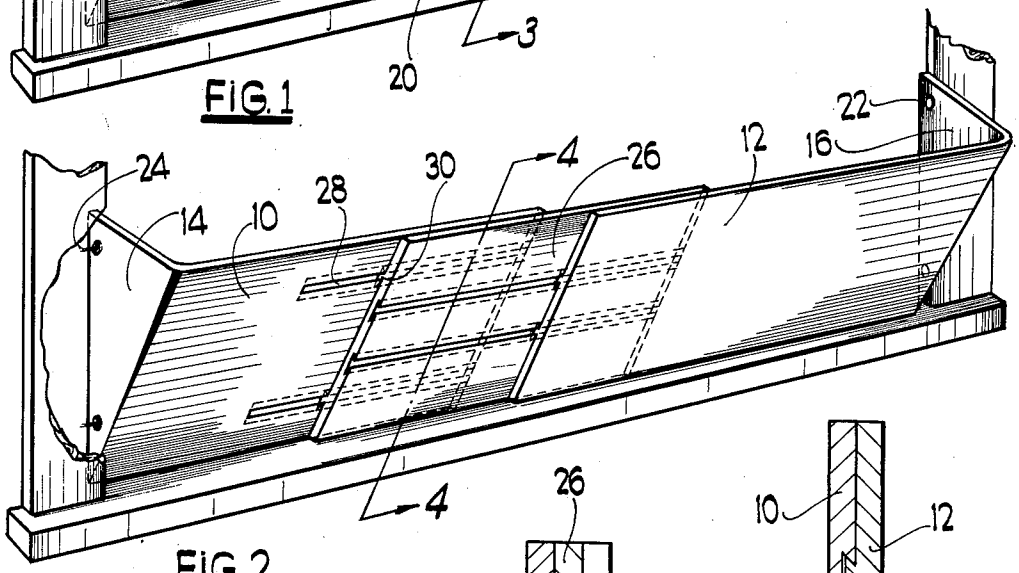

FIG. 2

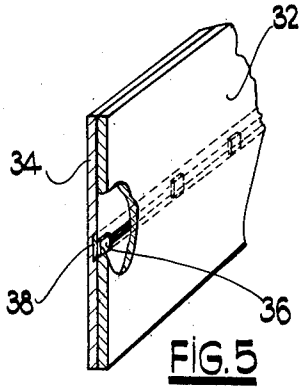

FIG. 5

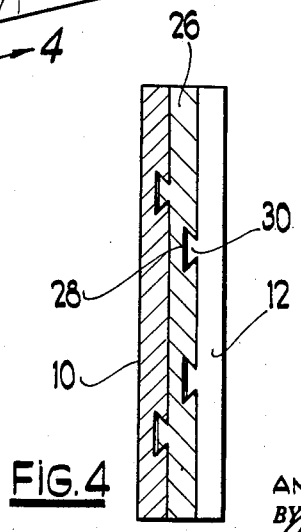

FIG. 4

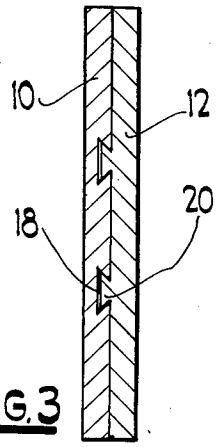

FIG. 3

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WINDOW VENTILATOR

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2 Claims. (Cl. 98—99.5)

This invention relates to draft deflectors for windows which may be adjustable over a wide range to fit window frames of different widths.

An object of primary importance is to provide a draft deflector for windows enabling windows to remain raised during inclement weather to maintain ventilation without subjecting the room to an undue flow of air through the open window, the deflector also being adapted for prompt insertion and removal to and from the window frame.

Another object of importance is to maintain the alignment of the two relatively adjustable members of the ventilator in all adjusted positions so that the unit will be rigid throughout its length.

With the above and other objects in view, the invention includes the features of construction and operation set forth in the following specification and illustrated in the accompanying drawing.

In the accompanying drawing annexed hereto and forming a part of this specification, I have shown the invention embodied in forms of ventilators for conventional window frames, but it will be understood that the invention can be otherwise embodied and that the drawing is not to be construed as defining or limiting the scope of the invention, the claims appended to this specification being relied upon for that purpose.

In the drawing:

FIG. 1 is a perspective view of a window ventilator or draft deflector made in accordance with the present invention;

FIG. 2 is a similar view of another embodiment of the invention;

FIG. 3 is a cross sectional view taken on the plane of line 3—3 in FIG. 1;

FIG. 4 is a cross sectional view taken on the plane of line 4—4 in FIG. 2, and

FIG. 5 is a perspective view of another embodiment of the invention broken away to show alternate means for retaining the adjustable panels in adjusted position.

In the above mentioned figures of the drawing, there have been shown two embodiments of the invention, but it is to be understood that changes and modifications may be made within the scope of the appended claims without departing from the spirit of the invention.

Referring more in detail to the figures of the drawing and first to the form of the invention shown in FIG. 1, it will be seen that the draft deflector comprises two relatively adjustable panel members **10** and **12**. These members may be made of suitable sheet or molded material such as Plexiglas, plastic, etc., preferably transparent, and having their outer ends bent at right angles to the panel as shown at **14** and **16** respectively.

One of the panel members **10** has one face thereof provided with one or more elongated dovetail grooves **18** extending lengthwise of the panel. The other panel **12** is provided with one or more dovetail projections adapted to interengage with the dovetail grooves **20** of the first panel. By means of these projections and grooves, the

panels may be adjusted lengthwise by sliding movements, the panels at all times and in all adjustments being maintained rigidly in alignment.

The panels **10** and **12** each has an angular end portion **14** and **16** bent as shown in the figures of the drawing to engage against the inner surface of a window frame. In these end portions **14** and **16** there may be provided openings **22** for suitable screws or nails. For convenience in positioning and removing the ventilator, short outstanding projections **24** may be provided having their heads embedded in recesses in the material of the panels. The points of these projections **24** may be forced into the material of the window frame to retain the panels in place by forcing the panels apart to permit the end portions to firmly engage the window frame member.

FIG. 2 shows a modification in that a third panel member **26** is interposed between the panels **10** and **12** shown in FIG. 1. In this form of the invention, the adjustment of the ventilator may be greatly increased. The intermediate member **26** as shown is provided with dovetail grooves **28** extending the full length of the member **26** on one face. On the opposite face are provided projections **30**.

Preferably, member **26** has its grooves **28** and projections **30** so disposed that these grooves **28** and projections **30** will interengage the grooves **18** and projections **20** of panels **10** and **12** respectively. In this disposition of the grooves and projections an intermediate panel **26** may be used with panels **10** and **12** without alteration.

In FIG. 5 the panels **32** and **34** are retained closely adjacent each other but relatively adjustable by magnetic means. One of the panels **32** has spaced magnets **36** molded therein along its length. The other panel **34** is provided with an elongated strip of steel **38** preferably embedded in a dovetail groove and adapted to contact the exposed surfaces of the magnets **36**. Preferably the magnets **36** may be formed of Alnico or other highly magnetizable material to retain the panel **34** having the strip of steel **38** forming an armature for the magnets **34** firmly in contact with the strip **38**. As shown in this figure, the outer surfaces of the magnets **36** and strip **38** are flush with the contiguous surfaces of the panels **32** and **34**.

I claim as my invention:

1. A window ventilator comprising
two relatively adjustable panels,
said panels being formed integrally of a single sheet of molded plastic material and having an end portion thereof bent at right angles to the main portion of said panels,
interengaging grooves and projections on said panels extending lengthwise of said panels to permit lengthwise adjustment thereof,
and intermediate panel having grooves extending from end to end on one surface thereof and projections formed on the opposite surface thereof extending from end to end,
the grooves and projections on said intermediate member being adapted to engage respectively the grooves and projections on said first mentioned panels,
and means to detachably attach said end portions to a window frame.

2. A window ventilator comprising

two relatively adjustable panels having their ends bent at right angles to each other to fit between the end surfaces of a window frame,

spaced magnets moulded within one panel,

and an armature member embedded within the other panel,

the outer surfaces of said magnets and strip being in contact in any adjustment of said panels.

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