

April 25, 1950

F. J. SCALLON
VENTILATING DEVICE
Filed Aug. 12, 1947

2,505,147

FIG. 1.

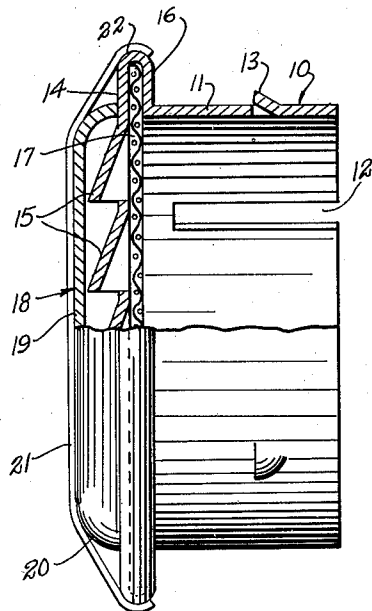


FIG. 2.

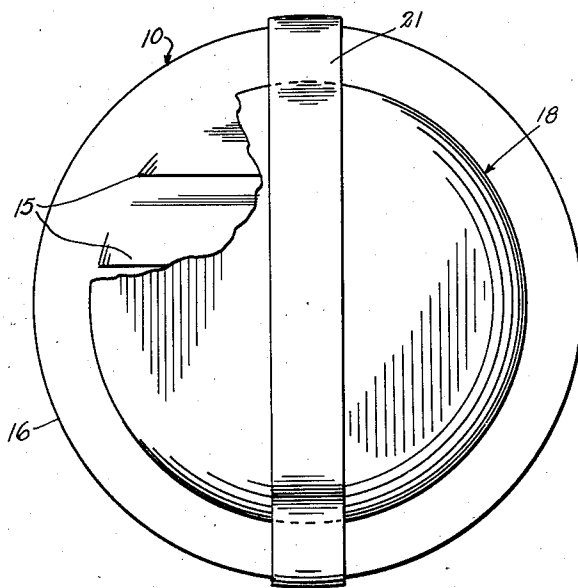


FIG. 3.

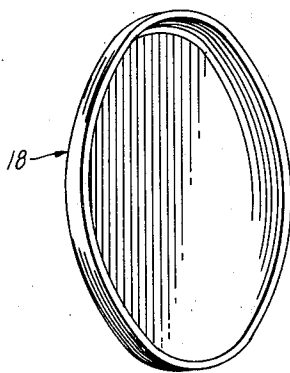


FIG. 4.

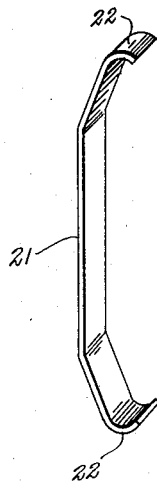
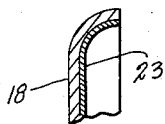


FIG. 5.



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2,505,147

VENTILATING DEVICE

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Application August 12, 1947, Serial No. 768,104

2 Claims. (Cl. 98—29)

1

This invention relates to ventilation of spaces within building walls, floor and roof structures, and more particularly to an improved clip-on cover for a rain and insect-excluding ventilating device for such spaces to also exclude outside air from such spaces when the outside air is excessively cold or otherwise unsuited for ventilating purposes, and is a continuation, in part, of my co-pending application Serial No. 743,974, filed April 25, 1947, for Ventilating device.

While ventilating devices, such as disclosed in my prior application, have been found to be highly effective and satisfactory in use, it has also been found that for some seasons of the year, particularly the winter season in cold climates, it is preferable to maintain the spaces within the wall, floor and roof structures of buildings closed to provide dead air spaces therein to thereby improve the insulating properties of the building and prevent the freezing of water and drain pipes exposed in such spaces as attics and unexcavated areas beneath the building.

It is among the objects of the present invention to provide a cover for a wall included ventilating device especially designed to admit ventilating air to relatively small spaces within building wall, floor and roof structures, which covers may be attached to and removed from the end of the ventilating device exposed at the outer surface of the building, without removing the ventilating devices or changing them in any way, which covers are securely attachable to the ventilating devices by resilient clips or hooks, are simple and durable in construction, economical to manufacture, and neat and attractive in appearance.

A more specific object resides in the provision of an improved detachable cover for a small unit ventilating device which cover is provided with a layer or coating of heat insulating material to prevent condensation of moisture on the cover and possible consequent staining of walls or other undesirable results.

Other objects and advantages will become apparent from a consideration of the following description in conjunction with the accompanying drawing wherein:

Figure 1 is a side elevation of a unit ventilating device showing a cover illustrative of the invention operatively applied thereto, a portion of the ventilating device and cover being broken away and shown in cross-section to better illustrate the construction thereof;

Figure 2 is a front elevation of the unit ventilating device and cover illustrated in Figure 1, a portion of the cover being broken away to bet-

2

ter illustrate its application to the unit ventilating device;

Figure 3 is a perspective view of the circular body portion of the cover;

Figure 4 is a perspective view of a resilient strap or clip used to detachably secure the body member of Figure 3 to the unit ventilating device; and

Figure 5 is a transverse cross-section of a body member such as illustrated in Figure 3, showing the application thereto of a cover or coating of insulating material.

With continued reference to the drawing, the unit ventilating device shown in Figures 1 and 2, and generally indicated at 10, is fully disclosed and claimed in my co-pending application referred to above, and constitutes no part of the present invention, except in the combination thereof with the improved cover. A brief description of the unit ventilating device is, therefore, considered sufficient for the purposes of the present disclosure.

The device 10 comprises a circular metal sleeve 11 having longitudinal recesses 12 therein so that the sleeve can be slightly contracted when forced into a circular aperture in a building wall or similar structure and is also provided with outwardly-extending tongues or detents 13 adapted to engage in the wall of a sleeve-receiving aperture to secure the ventilating device in position. The sleeve 11 is formed with an integral end wall 14 at one end which end wall is provided with transverse, parallel louvers 15 and extends marginally beyond the sleeve 11 to provide an annular double-walled flange 16 around the sleeve. A wire mesh screen 17 is disposed at the inner side of the end wall 14 and has its outer circumferential portion secured between the two walls of the double-walled flange 16 to firmly secure the screen in operative position in the ventilating device.

The cover, generally indicated at 18, is a circular, concavo-convex body of thin material, such as sheet aluminum. This body 18 may be described as saucer-shaped having a substantially flat bottom or wall portion 19 and a curved annular wall 20, which terminates in an outer edge lying substantially in a single plane. The diametrical dimension of the body 18 is such that the body, when applied to the outer face of the ventilating device 10, overlies the louvers 15, but leaves the flange 16 exposed around the outer edge thereof.

As is clearly shown in Figure 1, the body 18 of the cover is applied to the ventilating device with

3

its concave side adjacent the outer face of the end wall 14 so that the louvers 15 lie within the concavity of the saucer-shaped body.

A strap 21 of thin resilient material, such as spring steel, overlies the convex side of the body 11 and has its end portion bent to extend from the outer face of the cover to the flange 16 and recurved, as indicated at 22, to engage the outer edge of the flange at diametrically opposite positions thereon to detachably secure the cover to the ventilating device.

Where the covers are used in particularly cold climates, it is desirable to provide the inner side of the body 18 with a layer or coating of insulating material 23 to prevent condensation of moisture on the cover as such condensed moisture is likely to drain from the bottom of the device and stain the wall in which the device is mounted, or cause other undesirable results.

The covers may easily be applied to the ventilating devices when it is considered necessary to close the ventilating devices, as at the beginning of cold weather, and are easily removable when it is desired to again open the ventilating devices as when the danger of freezing water and drain pipes and other undesired effects of admitting cold air to the spaces within the building structure has passed.

When the covers have been removed they may be conveniently stored in a small space and applied again the following winter.

The invention may be embodied in other specific forms without departing from the spirit or essential characteristics thereof. The present embodiments are, therefore, to be considered in all respects as illustrative and not restrictive, the scope of the invention being indicated by the appended claims rather than by the foregoing description, and all changes which come within the meaning and range of equivalency of the claims are, therefore, intended to be embraced therein.

What is claimed is:

1. The combination with a device comprising a cylindrical metal sleeve having an end wall with openings therein and extending marginally beyond said sleeve to provide an annular flange around said sleeve, of a cover for said device com-

4

prising a thin walled, saucer-shaped body having a diameter less than the diameter of said end wall to overlie the outer side of said end wall with its edge in contact with said end wall surrounding said openings while leaving the marginal portion of said flange exposed, and a narrow strap of thin, resilient material extending diametrically across said body and having recurved end portions engageable over the marginal portion of said flange at diametrically opposite positions to releasably secure said cover to said device.

2. The combination with a device comprising a cylindrical metal sleeve having an end wall with openings therein and extending marginally beyond said sleeve to provide an annular flange around said sleeve, of a cover for said device comprising a thin walled, saucer-shaped body having a diameter less than the diameter of said end wall to overlie the outer side of said end wall with its edge in contact with said end wall surrounding said openings while leaving the marginal portion of said flange exposed, and a narrow strap of thin, resilient material extending diametrically across said body and having recurved end portions engageable over the marginal portion of said flange at diametrically opposite positions to releasably secure said cover to said device, said saucer-shaped cover having a layer of insulating material on the side thereof adjacent the end wall of said device.

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