Nov. 22, 1932. P. RHINOW 1,888,290

CHIMNEY HOOD

Filed Jan. 23, 1930 2 Sheets-Sheet 1

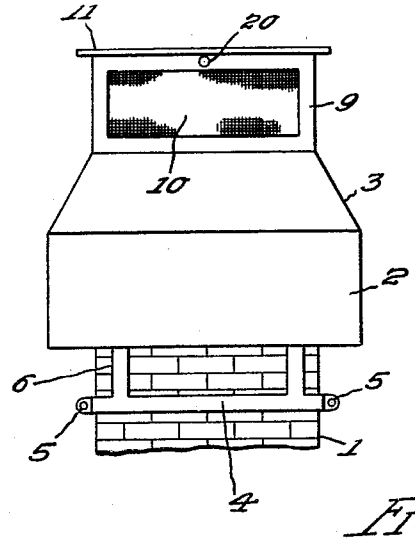


FIG. 1

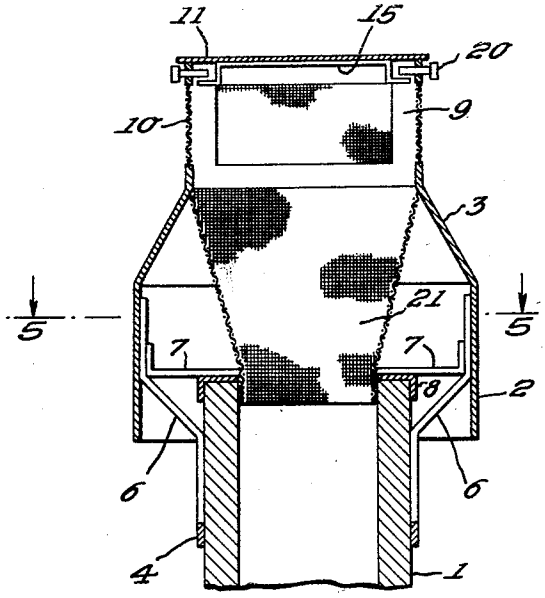


FIG. 2

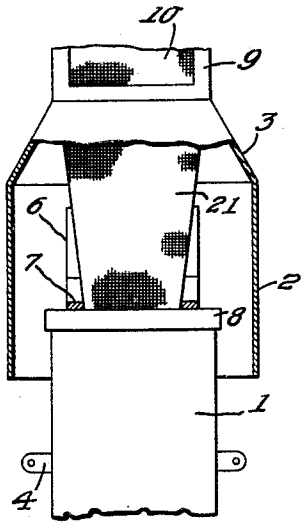


FIG. 3

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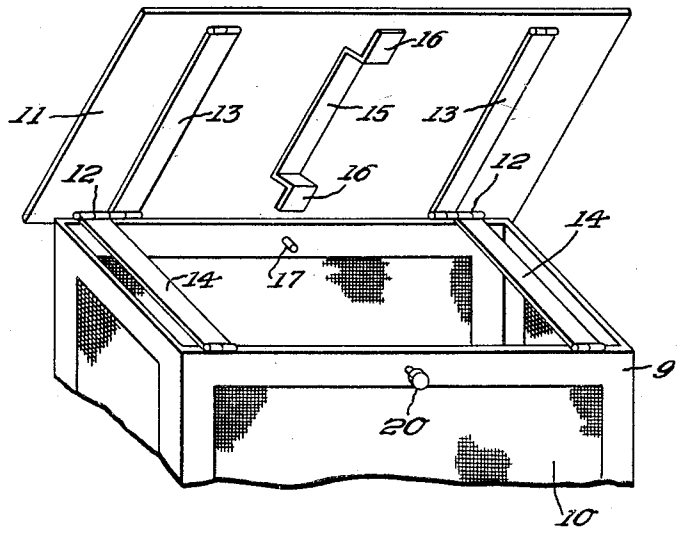


FIG. 4

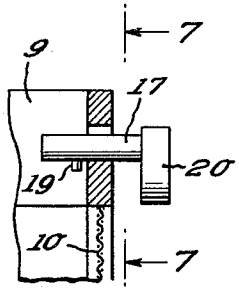


FIG. 6

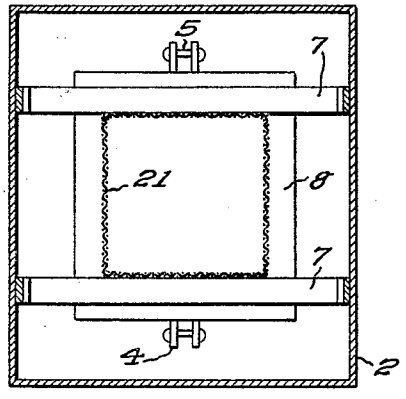


FIG. 5

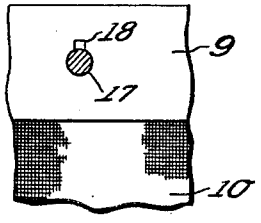


FIG. 7

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UNITED STATES PATENT OFFICE

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CHIMNEY HOOD

Application filed January 23, 1930. Serial No. 422,808.

This invention relates to improvements in chimney hoods and its object is to provide a ventilated chimney top or hood that will facilitate the normal chimney draft while preventing the escape of sparks, cinders and solid matter generally from the chimney. A further object is to provide a chimney hood that is inexpensive to manufacture, durable in use and that is readily applied to the chimney and that will positively hold its position through all kinds of weather for a long period of time.

With the foregoing and other objects in view the invention consists in the combination and arrangement of parts to be hereinafter fully described, pointed out in the appended claim and illustrated in the accompanying drawings which form a part of this application for patent and in which—

Fig. 1 is a side view of the chimney hood illustrating its application.

Fig. 2 is a vertical sectional view through Fig. 1.

Fig. 3 is a sectional view through the hood in a position at right angles to that shown in Fig. 2.

Fig. 4 is a view in perspective of the top portion of the hood showing the cap in raised position.

Fig. 5 is a cross sectional view taken on the line 5—5 of Fig. 2.

Fig. 6 is an enlarged fragmentary sectional view illustrating the cap latch employed.

Fig. 7 is a vertical sectional view taken on the line 7—7 of Fig. 6.

Like reference characters denote corresponding parts throughout the several views.

The chimney hood comprises a metallic body portion or skirt that is firmly secured by yoke bands to the top of the chimney, said skirt being bulged outwardly from the chimney to permit the passage of air, the skirt or body portion of the hood being provided with a contracted screen head having a hinged cap secured thereto, a somewhat funnel-shaped screen portion extending inside the skirt from the lower end of the head to the inside of the top of the chimney so that all sparks, embers and the like will be arrested after leaving the chimney proper and finally permitted to gravitate back thereinto while the smoke, air and gases is permitted to pass into the atmosphere.

The reference numeral 1 denotes the chimney and 2 the metallic body or skirt portion of the hood which is box-shaped to correspond to the shape of the upper end of the chimney and materially larger than the same so that a considerable air space is provided between the chimney and hood, the upper portion of the skirt being contracted to form the portion 3. A yoke band 4 extends longitudinally of each lateral face of the chimney, the outwardly bent ends of said bands being connected by the rivets 5. Extending upwardly from the bands 4 are the angular braces 6 that directly engage the skirt 2 and that are connected by angle irons 7 to the angular beading 8 secured to the topmost end of the chimney.

Extending upwardly from the upper contracted end of the skirt is the head comprising the frame 9 of metal that encompasses the screen 10, a cap 11 being secured by hinges 12 and cleats 13, 14 to the frame 9 of the head. The cap or cover 11 is imperforate and in closed position is close fitting and protects the top of the chimney from rain and snow, from direct down drafts and from the direct rays of a hot sun. Cold air entering the skirt from the open lower end, with the cap 11 closed, will pass up about the chimney top, but not directly across the same, and out through the head. This will accelerate the draft without "banking" the smoke and gases at the mouth of the chimney.

A bar 15 is made fast to the cap and is formed with angular ends 16 spaced from the cap, said bar extending transversely of the cap and its ends being adapted for engagement with the catches 17 that extend through the key holes 18 in the frame 9, each catch or key 17 having a lug 19 and an eccentric head 20 that yieldingly, through gravity, so positions the key with respect to the key hole that the lug 19 prevents withdrawal of the key through the keyhole.

When the cap is closed down upon the head the ends 16 of the bar 15 are disposed below the ends of the key. Manually raising the

cap will cause said bar ends 16 to engage the said key and retain the cap closed. By turning the keys half way around the lugs 19 are so positioned that they will pass through the key holes and so permit withdrawal of the keys thus permitting the cap 11 to be raised into open position when desired.

Extending inwardly and downwardly from the upper contracted end of the skirt is the somewhat funnel shaped screen 21 that is secured to the inner face of the wall of the chimney. The sparks, embers, cinders etc. upon leaving the chimney are surrounded by this screen and prevented from escaping into the skirt, the head 9, 10 and cap 11 receiving such sparks as pass beyond said screen portion 21. The imprisoned sparks will finally gravitate back into the chimney or burn up within the hood.

What is claimed is:—

In a chimney hood, a skirt having a contracted top portion, the lower portion of said skirt being of materially greater width than the chimney to provide air space thereabout and terminating below the top of the chimney in an open end, supports connecting said skirt to the sides and top of the chimney, a head at the upper end of said skirt, said head being open on all sides, and a solid, flat, close fitting cap hinged to said head.

In testimony that I claim the foregoing as my own I have hereto affixed my signature.

PAUL RHINOW.