A. O. NORDSTROM & A WAHLSTRAND.

SLEEPING HOOD.

APPLICATION FILED MAY 24, 1917.

1,263,595. Patented Apr. 23, 1918.

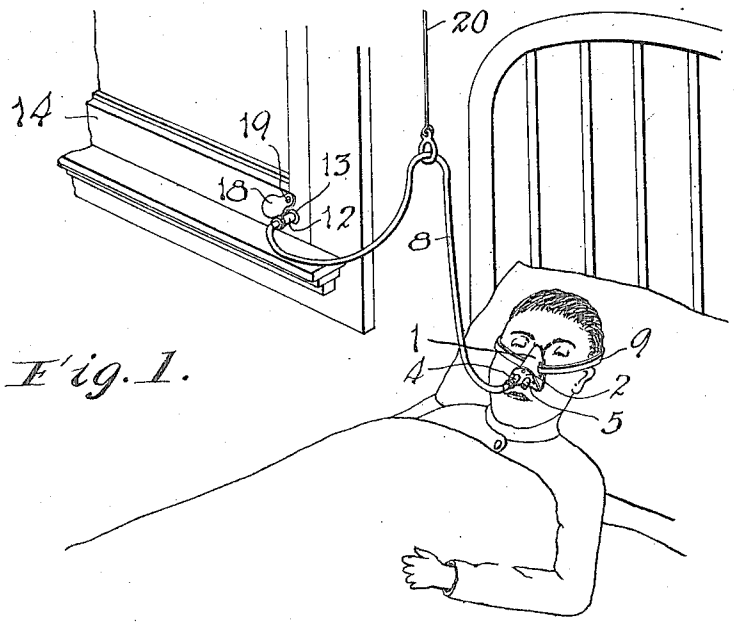


Fig. 1.

Fig. 2.

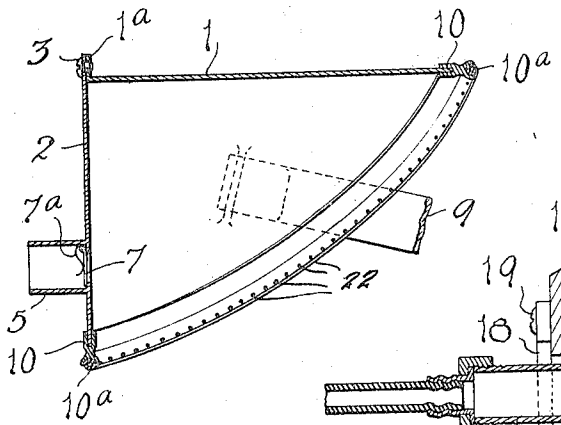
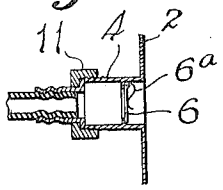


Fig. 3.



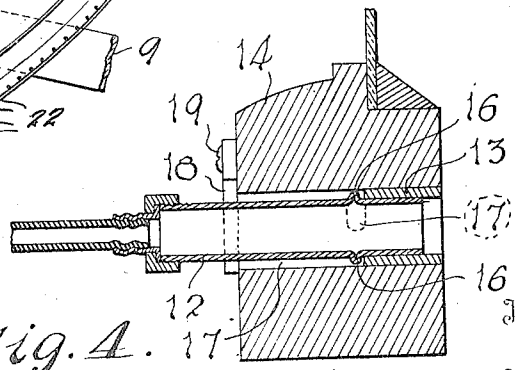


Fig. 4.

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SLEEPING-HOOD.

1,263,595. Specification of Letters Patent. Patented Apr. 23, 1918.

Application filed May 24, 1917. Serial No. 170,704.

To all whom it may concern:

Be it known that we, ANDREW O. NORDSTROM and ALBIN WAHLSTRAND, citizens of the United States, residing at Willmar, in the county of Kandiyohi, State of Minnesota, have invented a new and useful Sleeping-Hood; and we do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

The present invention relates to a device for conveying fresh air from the outside of a building to a sleeper without the necessity of raising the window, thereby enabling the sleeper to derive all of the benefits of a constant supply of fresh air and still have the comforts of a warm room.

Further objects of the invention are to provide a device of this character which is simple and inexpensive in its construction, which can be quickly placed in position and worn without discomfort, which will convey an ample supply of fresh air from the outside of a building to a sleeper within the same, and which can be adjusted for use by different persons.

With these and other objects in view, the invention consists in certain novel combinations and arrangements of the parts as will more fully appear as the description proceeds, the novel features thereof being pointed out in the appended claims.

For a full understanding of the invention, reference is to be had to the following description and accompanying drawing, in which:—

Figure 1 is a perspective view of a sleeping hood constructed in accordance with the invention, showing the manner of using the same.

Fig. 2 is a vertical longitudinal sectional view through the shell of the hood.

Fig. 3 is a fragmentary sectional view through the fresh air inlet valve casing.

Fig. 4 is a transverse sectional view through a window sash, showing the manner of applying the outer end of the flexible air tube thereto.

Corresponding and like parts are referred to in the following description and indicated in all the views of the drawings by the same reference characters.

Referring to the drawings, which illustrate one embodiment of the invention, the numeral 1 designates a hollow shell or guard which is suitably shaped to fit over the nose of a person using the device, said shell being sufficiently larger than the nose so that no discomfort will be occasioned. The lower end of the nose guard is flanged at 1^a, and is closed by a plate 2 which is removably held in position by suitable means such as the screws 3. This plate 2 is arranged directly opposite the nostrils when the nose guard is in operative position, and is provided with a pair of openings communicating with the respective valve chambers 4 and 5. Suitable check valves 6 and 7 are arranged within the respective valve chambers 4 and 5 and control the inflow of fresh air through a flexible tube 8 and the discharge of foul air. These check valves 6 and 7 are constructed to be very delicate in their action, so as to offer practically no resistance to the inflow and outflow of the air, and are shown as in the form of flap valves which are normally held in a closed position by the delicate springs 6^a and 7^a, respectively, the valve 6 opening inwardly, while the valve 7 opens outwardly.

A suitable head strap 9 may be provided for holding the shell 1 in position over the nose, and a channel shaped binding 10 is applied to the inner edge of the shell 1 and plate 2, said binding strip carrying a soft packing member such as the rubber tube 10^a which engages the face and enables the device to be worn without discomfort. The edges of the shell 1 will have to be cut and shaped to conform to the face of the particular person who is to use the device, and after the edges have been properly cut and shaped the binding strip 10 can be applied thereto. The plate 2 is adapted to be used interchangeably in connection with any one of a number of shells 1, so that the device can be used by any person in a family or household by merely applying the plate 2 to a shell or nose guard 1 which has been properly adjusted and fitted for the particular person.

The inner end of the flexible fresh air pipe 8 may be secured by a coupling 11 to the outer end of the valve casing 4, while the outer end thereof terminates in a sleeve 12 which is adapted to be inserted within a bushing 13 arranged within an opening in a

window sash 14, said sleeve being preferably provided with lugs 16 arranged to interlock with bayonet slots 17 in the bushing. A plate 18 which is hingedly connected at 19 to the window sash 14 is swung over the opening in the window sash to close the same when the device is not in use, and it will be obvious that the sleeve 12 at the end of the fresh air pipe 8 would be quickly placed in engagement with or disengaged from the bushing 13. The middle portion of the fresh air pipe 8 may be suitably suspended by a cable 20.

With this device the sleeper will be supplied with fresh air from the outside of the building, although the window will be closed so that he will not be subjected to the discomfort of sleeping in a cold room. When the sleeper inhales or draws in a breath, the valve 6 will open and the valve 7 close, thereby causing the air to be drawn through the fresh air pipe 8, while when the breath is exhaled the valve 6 will be closed and the valve 7 opened, thereby causing the vitated air to be discharged through the open end of the valve casing 5.

If desired, perforations 22 may be formed in the edges of the binding strip 10, said perforations providing a means for stitching any additional padding in position which may be found necessary when finally fitting the shell to the face of the wearer.

Having thus described the invention, what we claim as new and desire to secure by Letters Patent, is:—

1. A device of the character described including a hollow nose receiving shell having the edges thereof cut to correspond to the contour of the face, said shell being provided with valved inlet and outlet openings, a double channel shaped binding strip, one of the channels of the binding strip engaging the edge of the shell, and a soft packing strip arranged in the other channel of the binding strip for engagement with the face.

2. A device of the character described including a hollow nose receiving shall having the edges thereof cut to correspond to the contour of the face, a binding strip applied to the said edges of the shell and formed with a channeled edge portion having perforations in the sides thereof, and a soft packing strip fitted in the channeled portion of the binding strip, the before mentioned perforations enabling additional packing to be stitched in position when such is necessary to fit the contour of any particular face.

In testimony whereof we have signed our names to this specification in the presence of two subscribing witnesses.

ANDREW O. NORDSTROM.
ALBIN WAHLSTRAND.

Witnesses:
CHARLES JOHNSON,
C. H. ANDERSON.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."