(No Model.)

U. HARDER.

STORM MASK.

No. 587,687. Patented Aug. 3, 1897.

Fig. 1.

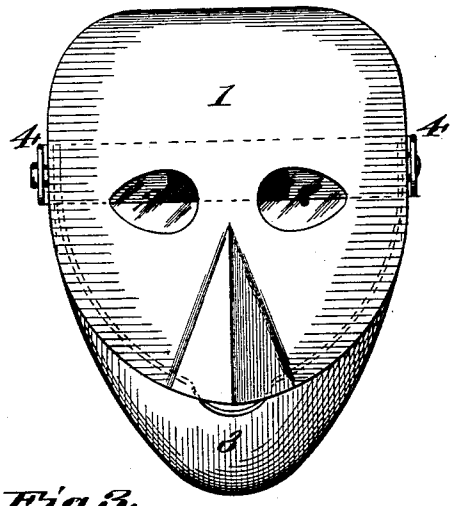


Fig. 2.

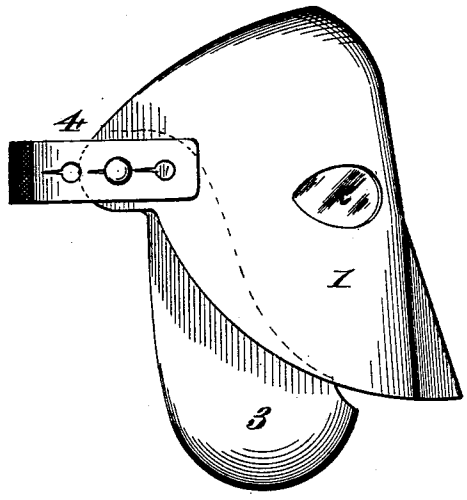


Fig. 3.

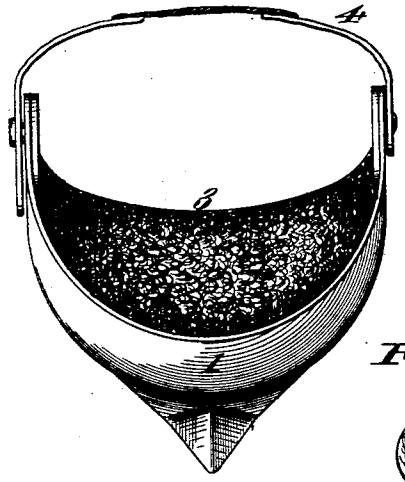


Fig. 4.

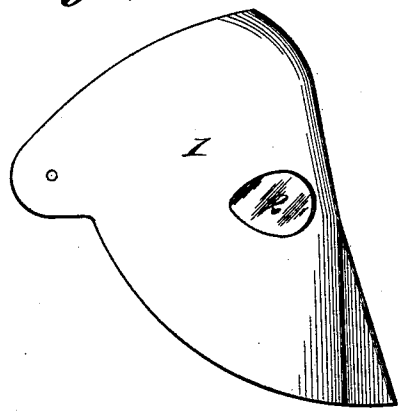
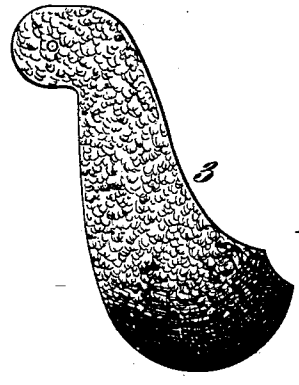


Fig. 6.



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UNITED STATES PATENT OFFICE.

ULRICH HARDER, OF ST. LOUIS, MISSOURI.

STORM-MASK.

SPECIFICATION forming part of Letters Patent No. 587,687, dated August 3, 1897.

Application filed September 26, 1896. Serial No. 607,038. (No model.)

To all whom it may concern:

Be it known that I, ULRICH HARDER, residing in the city of St. Louis, State of Missouri, have invented a new and useful Storm-Mask, of which the following is a specification.

My invention relates to masks, and has for its principal object to provide a device for protecting the wearer's face from the cold and storms without interfering with his respiration or the movement of his lower jaw.

To this end it consists in the details of construction and in combination of parts hereinafter described and claimed.

In the accompanying drawings, which form part of this specification and in which like symbols refer to like parts wherever they occur, Figure 1 is a front view of my device. Fig. 2 is a side view thereof. Fig. 3 is a top view thereof. Fig. 4 is a side view of the upper section, and Fig. 5 is a sectional view of the lower section.

The main section 1 of the mask is designed to fit over the forehead and to cover loosely the entire upper portion of the wearer's face down to a line corresponding with the upper margin of the lower jaw-bone. This section is preferably made of waterproofed papier-mâché or other similar material lined with some suitable material, like oiled silk. The side portions of this section are extended forwardly to meet in an edge and thereby form a wedge-shaped front, as shown in Fig. 3, whereby the mask offers less resistance to the wind. Eyeholes 2 are formed in this section and preferably covered with mica or other suitable transparent substance.

A second section 3, of a shape to fit the wearer's chin and jaw, is pivotally fastened to the upper section at points corresponding with the position of the wearer's temples. By this arrangement the lower jaw is free to move, and its movement carries with it the lower section of the mask. The upper section overlaps the lower section slightly at the sides and extends down lower than the end of the nose, covering the mouth and nostrils, but at such a distance therefrom that the respiration of the open air may be entirely unobstructed, this arrangement being such that the wearer may have full use of his lower jaw and his powers of speech.

The lower section is preferably made of the same material as the upper section and lined with felt, flannel, or other similar material. A strap 4, adapted to extend around the wearer's head, is fastened to the upper section to hold the mask in position. This strap is made of any suitable material, but it is preferable to make it or a section of it of some elastic fabric. A convenient fastening for said strap consists in a series of buttonholes made therein and adapted to coöperate with a button on the upper section.

Obviously divers changes may be made in the details of my device without departing from my invention, and I do not wish to restrict myself to the details hereinbefore specified.

It is noted that the material of which the mask is made is a non-conductor of heat, whereby the head is protected against the cold as well as against the wind and rain and sleet.

What I claim as new, and desire to secure by Letters Patent, is—

A face-mask consisting of a main section conformed to the head of the wearer and having its lower portion projecting forwardly in wedge form, and a jaw-section pivotally mounted on said main section and arranged to fit the chin and move therewith, the lower edge of the main section being arranged to overlap the jaw-section, all substantially as and for the purpose set forth.

ULRICH HARDER.

In presence of—
JAMES A. CARR,
JAMES J. O'DONOHOE.