

(No Model.)

A. CARLSTON.
INHALER AND RESPIRATOR.

No. 246,077.

Patented Aug. 23, 1881.

Fig. 1.

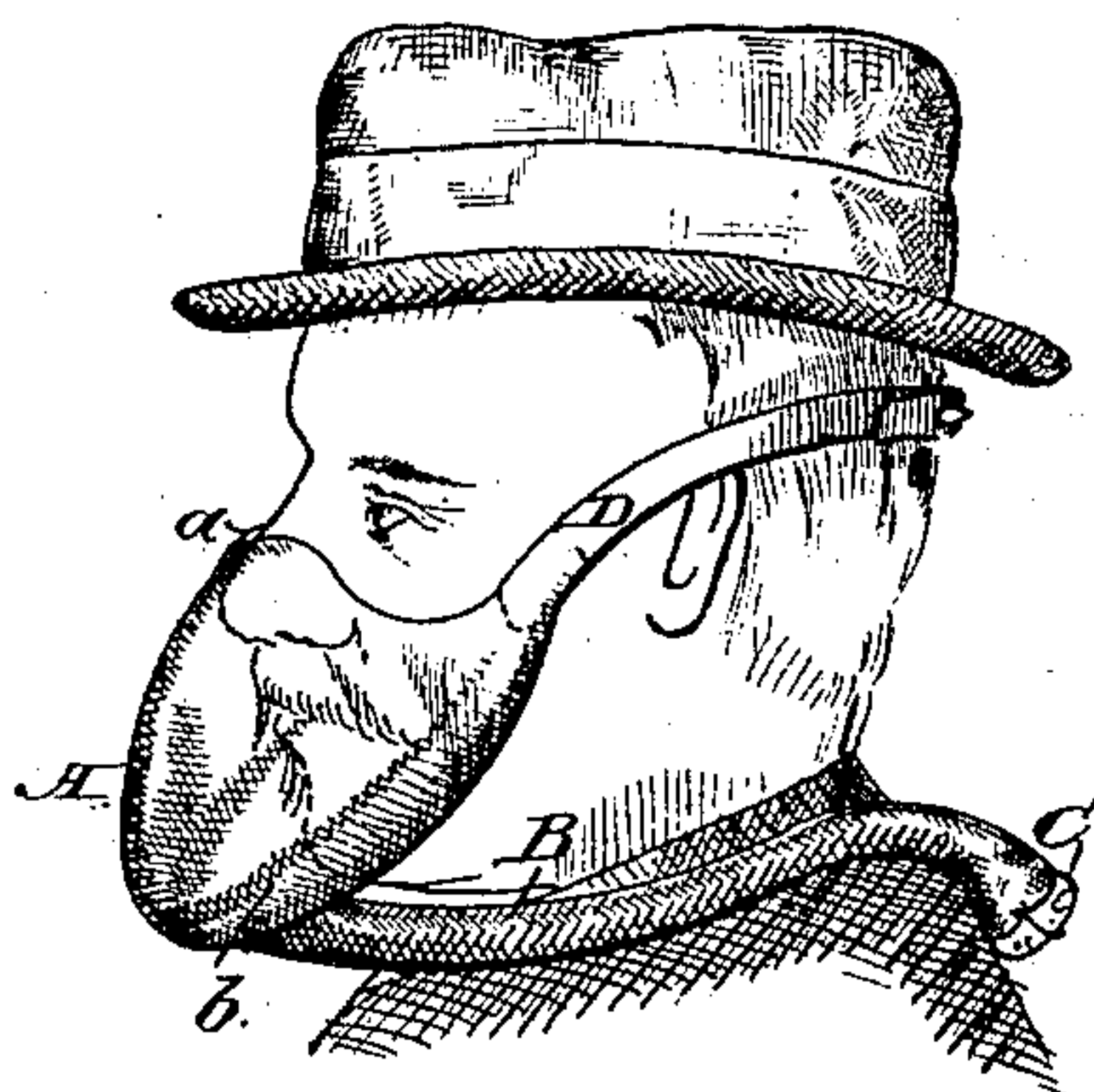


Fig. 2.

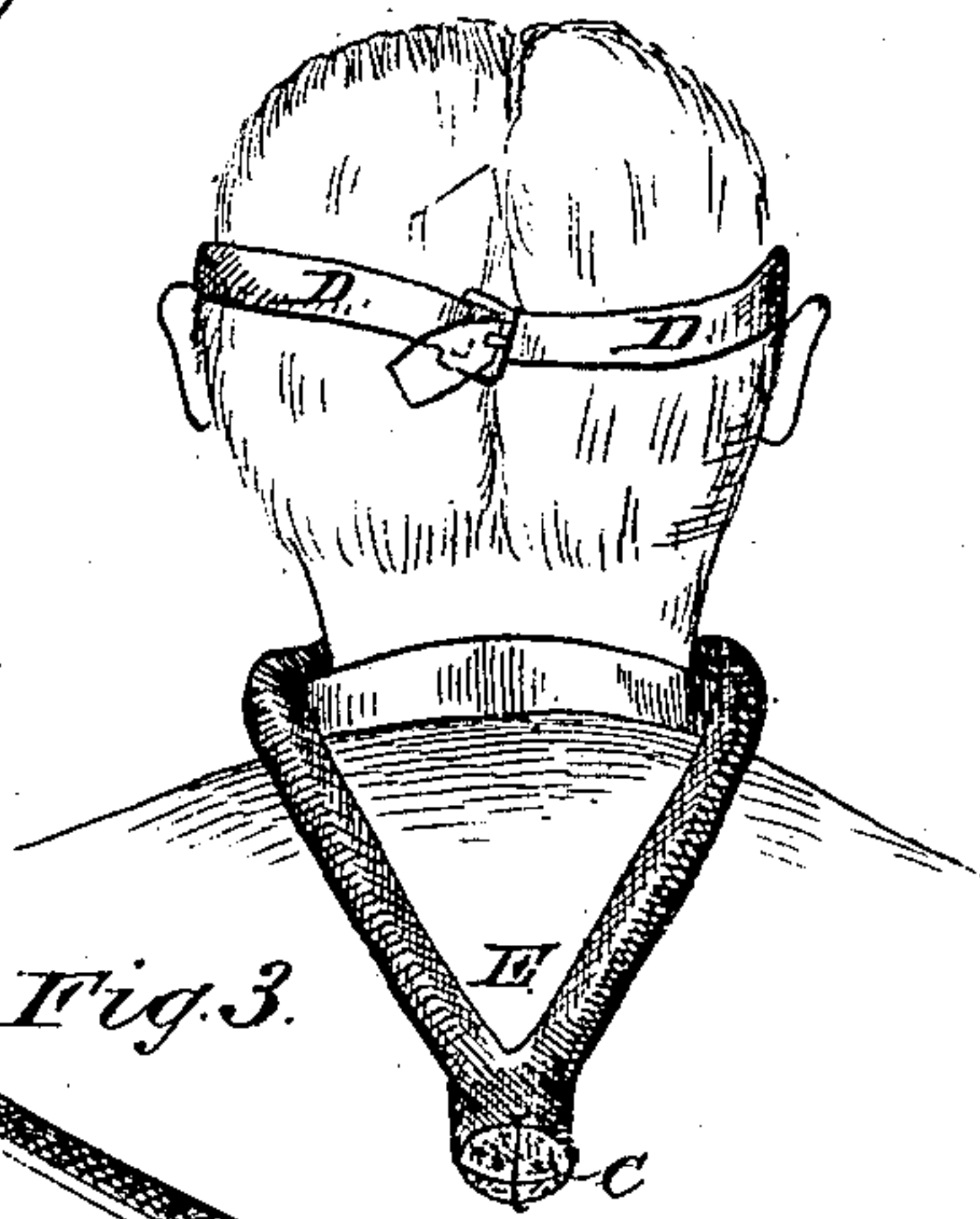
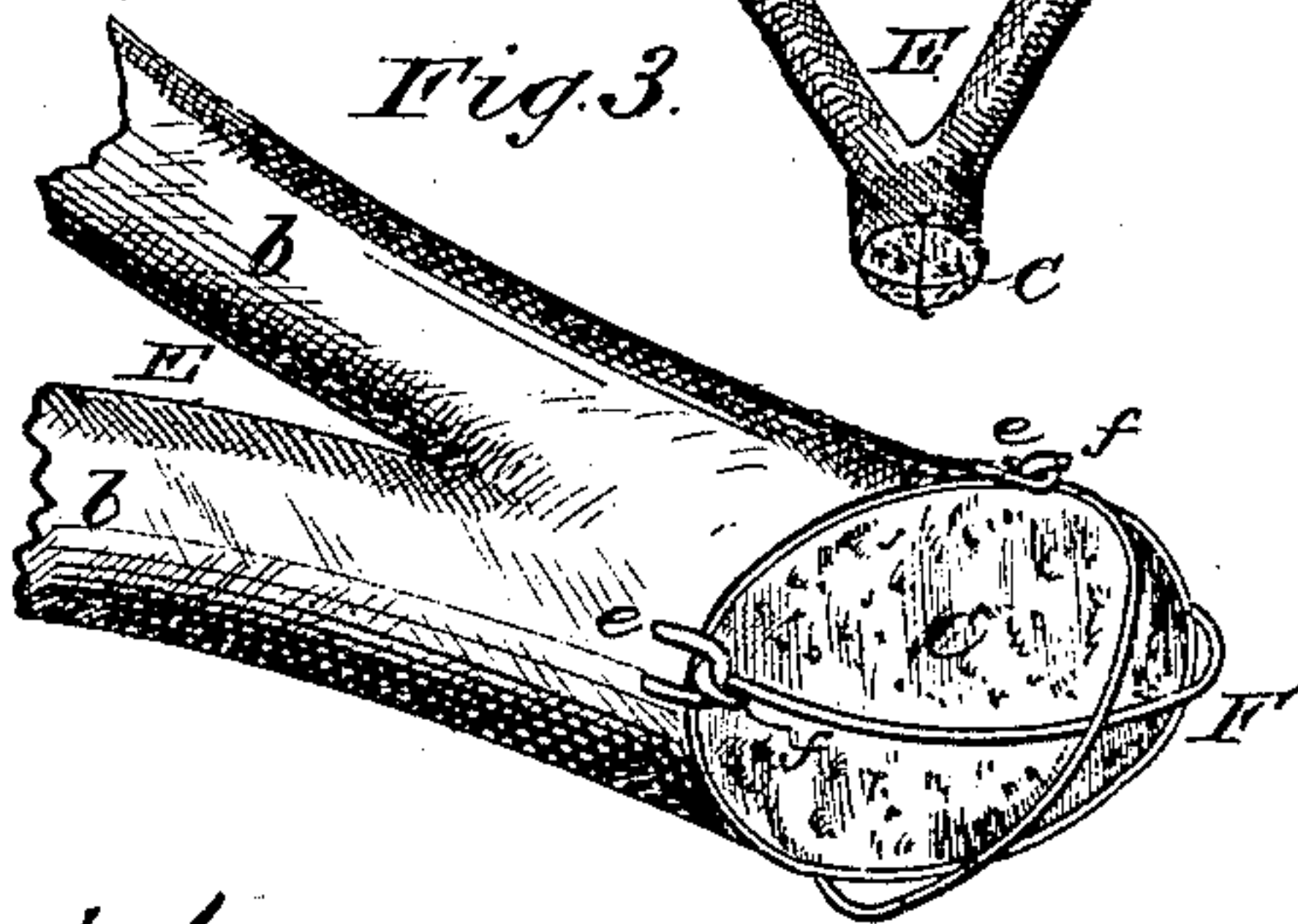


Fig. 3.



WITNESSES

Fred. G. Dietrich
A. H. Krause

By *his* Attorneys

August Carlston,
INVENTOR,
Louis Bagger & Co.

UNITED STATES PATENT OFFICE.

AUGUST CARLSTON, OF ABINGDON, ILLINOIS.

INHALER AND RESPIRATOR.

SPECIFICATION forming part of Letters Patent No. 246,077, dated August 23, 1881.

Application filed April 5, 1881. (No model.)

To all whom it may concern:

Be it known that I, AUGUST CARLSTON, of Abingdon, in the county of Knox and State of Illinois, have invented certain new and useful
5 Improvements in Lung-Protectors; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same,
10 reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a side view of the protector as applied to a person's face. Fig. 2 is a rear view
15 of the same, and Fig. 3 is a detail view of the end of the bifurcated breathing-pipe, with its sponge and sponge-bag.

Similar letters of reference indicate corresponding parts in all the figures.

20 My invention has relation to devices for protecting the throat and lungs of grinders, polishers, cotton-ginners, and other persons working in manufacturing establishments where a great deal of dust is generated; and it consists in
25 the detailed construction and arrangement of a flexible guard for covering the mouth and nose, which is provided with a bifurcated pipe extending to the back of the neck of the person wearing it, substantially as hereinafter
30 more fully set forth.

In the annexed drawings, A represents the front part of the protector or guard proper, which is of such a size as to cover the nostrils and mouth of the person wearing it, so as to
35 stand or project about two inches out from the mouth. The upper part of the guard is split a little, or made with a notch at *a*, so as to fit tightly against the bridge of the nose.

From the projecting part or bag *b* extends a
40 branched or bifurcated pipe, B, the branches passing to opposite sides and connecting again at their extreme ends, where they form a bag or receptacle for the sponge C. To the opposite upper corners of the guard A are attached
45 straps D, by means of which the protector may be buckled upon the head of the wearer, as shown; or an elastic strap may be used, so as to dispense with the buckles or buttons. This strap passes over the ears, so as to prevent

the protector from sliding down, and hold it 50 in its proper position.

In the bag or receptacle E, at the juncture or unison of the pipes B B, is placed a sponge or tuft of cotton-wool, C; or a fine wire screen
55 may be substituted, which is held in place and prevented from falling out by the crossed wires F F, one or both of which have hooks *f*, for hooking them into the eyes *e* of the bag or
60 sponge-receptacle E. By unhooking the wires the sponge or other device may readily be removed when it is desired to wet it, or for other purposes.

From the foregoing description, taken in connection with the drawings, the use of the device will readily be understood without fur-
65 ther explanation.

The air for breathing passes from the back through the pores of the sponge, and through the pipes B into the bag in front of the wear-
70 er's face, which excludes dust from the mouth and nostrils.

If the wearer wants to expectorate or sneeze, he lifts the guard or front A up over the mouth, which may be done without loosening the
75 straps.

I prefer to make the entire protector of india-rubber; but, if desired, it may be made of leather, cloth, or other suitable material, in whole or in part.

This protector will also be found useful in 80 cold weather for persons having weak lungs, and, if desired, the sponge may be dipped in a solution of drugs or herbs, so as to medicate the air as it passes through it into the pipes.

I am aware that tubes in different forms 85 having their free openings distant from the mouth of the wearer are old, as shown in Patents No. 6,529, of 1849, and No. 16,863, of 1857; but the tubes in those constructions are cum-
90 bersome and in the way of the wearer, affecting the free and untrammelled exercise of his person.

My invention contemplates a device which will fit snugly around the neck, and which will in no manner interfere with the free exercise
95 or labor of the wearer, be he artisan or man of leisure.

I place importance also upon the means for

securing and holding the sponge, allowing it to be readily removed for cleansing or the like.

Having thus described my invention, I claim and desire to secure by Letters Patent of the
5 United States—

As a new article of manufacture, the protector herein described, consisting of the bag A, shaped at *a* to fit the nose, and having tie-strap D, the bifurcated tube B *b*, the converg-
10 ent ends of which form an enlarged mouth, F, in which is removably received the sponge C,

and the holding means *ef*, the tube being adapted to be passed over the head and embrace the neck of the wearer, and the whole adapted to serve as and for the purposes set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

AUGUST CARLSTON.

Witnesses:

MADISON REECE,
OLOF JOHNSON.

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