

No. 658,468.

Patented Sept. 25, 1900.

**D. W. SCHAEFFER.  
RESPIRATORY MASK.**

(Application filed Mar. 2, 1900.)

(No Model.)

Fig 1.

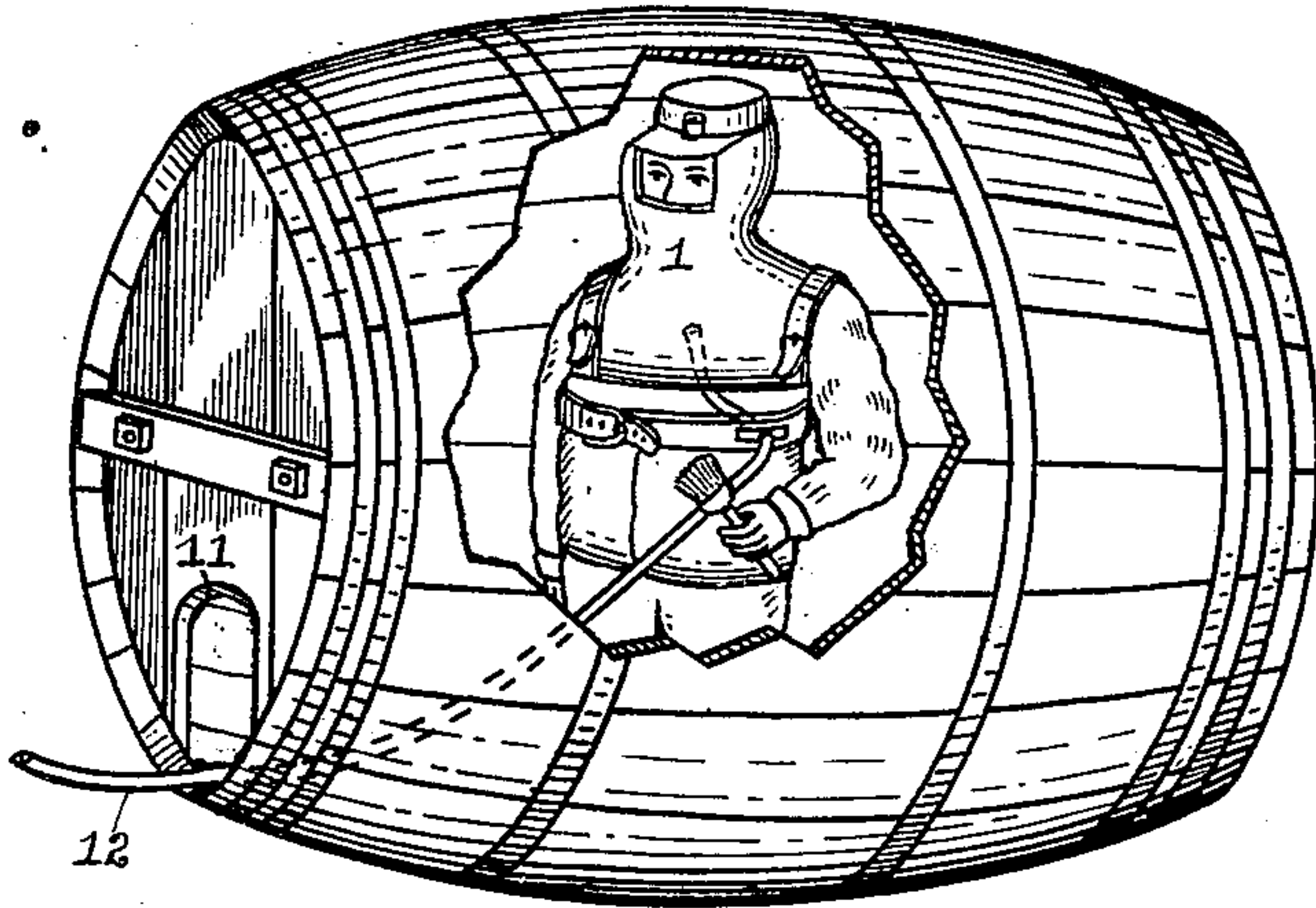
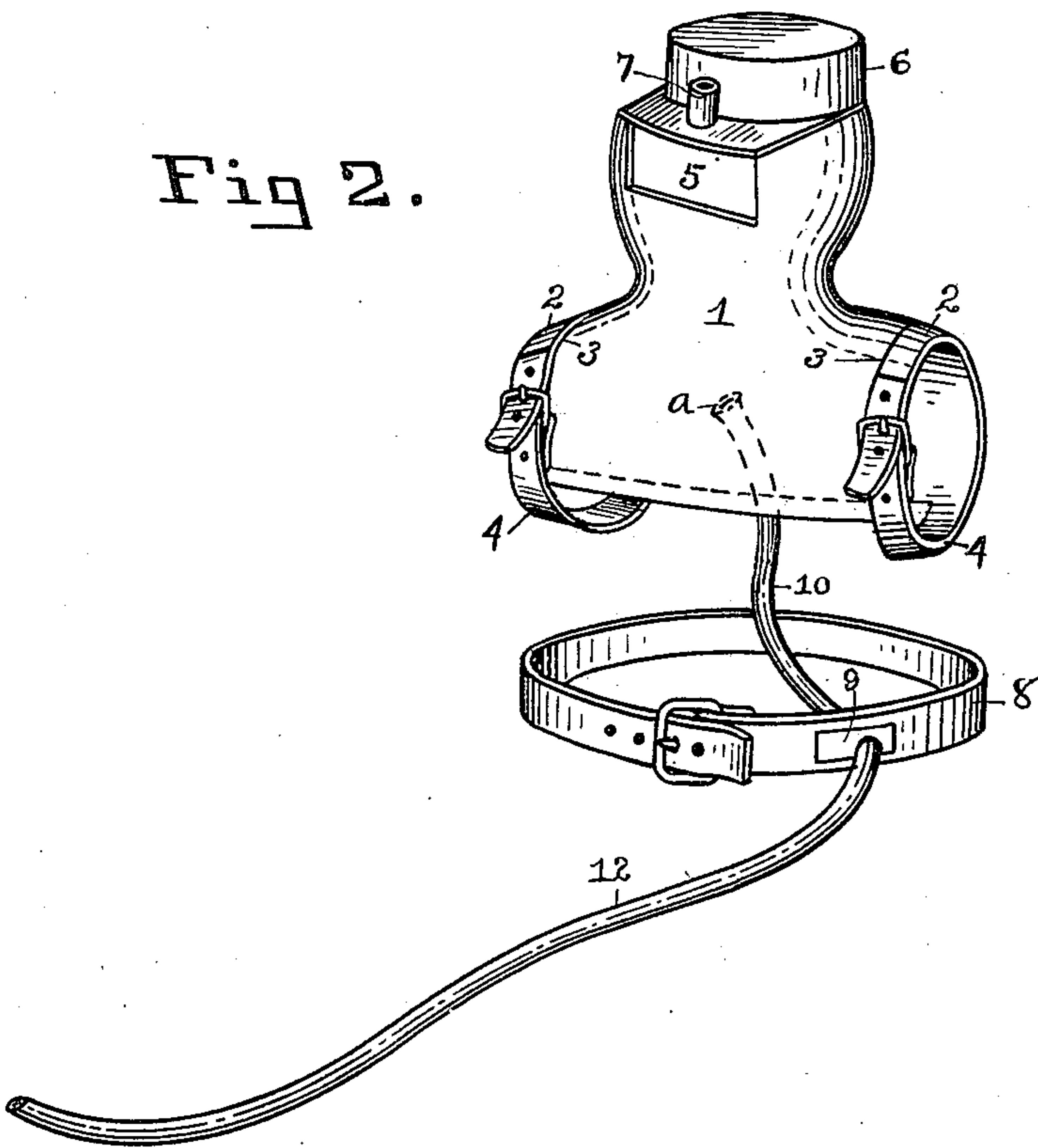


Fig 2.



Attest.

*C. Theobald  
Matthew Liebler*

*D. W. Schaeffer*  
Inventor.  
By *R. J. M. Carter*  
his Att'y.



# UNITED STATES PATENT OFFICE.

DANIEL W. SCHAEFFER, OF DAYTON, OHIO.

## RESPIRATORY MASK.

SPECIFICATION forming part of Letters Patent No. 658,468, dated September 25, 1900.

Application filed March 2, 1900. Serial No. 7,023. (No model.)

*To all whom it may concern:*

Be it known that I, DANIEL W. SCHAEFFER, a citizen of the United States, residing at Dayton, in the county of Montgomery and State of Ohio, have invented certain new and useful Improvements in Masks or Hoods for Use in Shellacking the Interior of Brewery-Casks; and I do 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, reference being had to the accompanying drawings, and to the characters of reference marked thereon, which form a part of this specification.

This invention relates to new and useful improvements in varnishers' masks.

In beer-brewing establishments the freshly-brewed beer is placed in a number of large casks, in which it is permitted to remain for a certain period of time for the purpose of giving it the necessary age. These casks are very large and spacious and contain anywhere from one hundred to two hundred barrels of beer. In order to prevent the beer from coming in contact with the wood from which the casks are constructed, and thus soaking into the wood, it is the necessary custom to apply to the interior of these large casks a coating of shellac. As a preparatory step to the application of the shellac to the interior of the casks a charcoal-fire is maintained therein for the purpose of drying the interior of said casks. This fire is removed from the casks before the work of varnishing is commenced; but there is always remaining within said casks more or less of the fumes arising from the charcoal-fire. This, together with the lack of ventilation and alcoholic fumes arising from the shellac, makes it exceedingly difficult and trying upon the person whose duty it is to enter the casks to apply the shellac. The opening in the head of the cask is only large enough to permit of the ingress and egress of a comparatively-small person, and through this opening there is very little air admitted to the interior of the casks. Owing to these obstacles the workman can rarely remain within a cask in the performance of his duty more than a minute at a time. Therefore the work of shellacking the interior of one of

these casks is slow, tedious, and is fraught with much danger.

It is therefore the object of my invention to provide means whereby the work of shellacking the interior of these casks may be done more rapidly, with greater ease, and without endangering the life and health of the workman.

To this end my invention comprises a specially-constructed mask or hood, which envelops the head and shoulders, thus excluding the fumes of gas and alcohol, and through which a suitable quantity of fresh air is admitted for inhalation.

Preceding a detailed description of my invention reference is made to the accompanying drawings, of which—

Figure 1 is an elevation of a brewer's cask, with part of the side thereof broken away to show the workman therein. Fig. 2 is an enlarged view showing more clearly the manner of attaching the mask or hood.

In a detailed description of my invention similar reference characters will indicate corresponding parts.

The hood or mask 1 is constructed of sheet-rubber or any other suitable fabric that will sufficiently confine the air. This hood or mask fits loosely down over the head and chest and is secured to a flexible or rubber band 2, that fits over the upper portion of the shoulders. The edges 3 of said hood or mask are secured throughout to these elastic or flexible bands 2, and there is also secured to the ends of said elastic bands 2 a strap 4, with a buckle. This strap extends under the arm-pits, and by means thereof the hood or mask may be drawn down and securely fastened to the shoulders and across the chest and back, so that it will be prevented from rising under any pressure of air admitted beneath said hood. The upper front portion of said hood or mask is provided with a sight-opening 5, which may be inclosed by a pane of glass or any transparent material, or it is possible to use the device without said window-glass in cases where the wearer is troubled by perspiration. The upper portion of the hood or mask is attached around its edges to a cap 6, which fits over the head of the wearer. This cap has a ventilating-hole 7, through which



a desirable ventilation of the interior of the mask is obtained.

8 is a band or belt securable around the body at a suitable point below the mask or hood, but not necessarily having an attachment with said hood or mask. This belt is a support for the air-tube and contains a suitable plate 9, which is secured thereto and which affords a connection for a flexible tube 10, which passes up on the interior of the hood or mask and is secured to the interior thereof in any suitable manner, the point of attachment being indicated by the letter *a*. The rubber hose 12 screws into the plate 9, connects with the tube 10, and passes down from the body and out of the cask through an ingress and egress opening 11 in the end thereof. This hose is supplied with the necessary air for ventilating the mask or hood from any of the air-pumps used about the brewery.

By the use of the above-described means a workman may remain within one of these casks until the work of shellacking the interior thereof is completed. Therefore, besides being enabled to do the work in a more thorough and satisfactory manner, the health is not in the least endangered and the work is done far more expeditiously.

I am aware that various forms of armor, inhalers, masks, &c., have heretofore been in

use as means for protecting firemen and others from heat, smoke, &c., in entering burning buildings; but these devices, owing to their construction and other features, are not suited to the purposes of a varnisher of a brewery-cask. The present device is constructed for such use alone and is eminently capable for the use intended.

Having described my invention, I claim—

A mask for use in shellacking the interior of brewery-casks, comprising a covering of flexible material for the head and shoulders; the same being provided with a transverse sight-opening extending across the upper portion, and a ventilation-opening directly above said sight-opening, straps connected around the edges of said mask that fit over and around the shoulders, whereby said mask may be secured tightly around said shoulders, a flexible air-tube projected under the lower front portion of said mask, a belt securable to the body of the wearer below said mask and disconnected therefrom, and to which the said air-tube is attached, and whereby said mask is relieved of the weight of the air-pipe.

In testimony whereof I affix my signature in presence of two witnesses.

DANIEL W. SCHAEFFER.

Witnesses:

JOSEPH A. WORTMAN,  
C. THEOBALD.