Nov. 10, 1925. 1,560,997

J. F. KELLY

MEDICAL AND SURGICAL APRON

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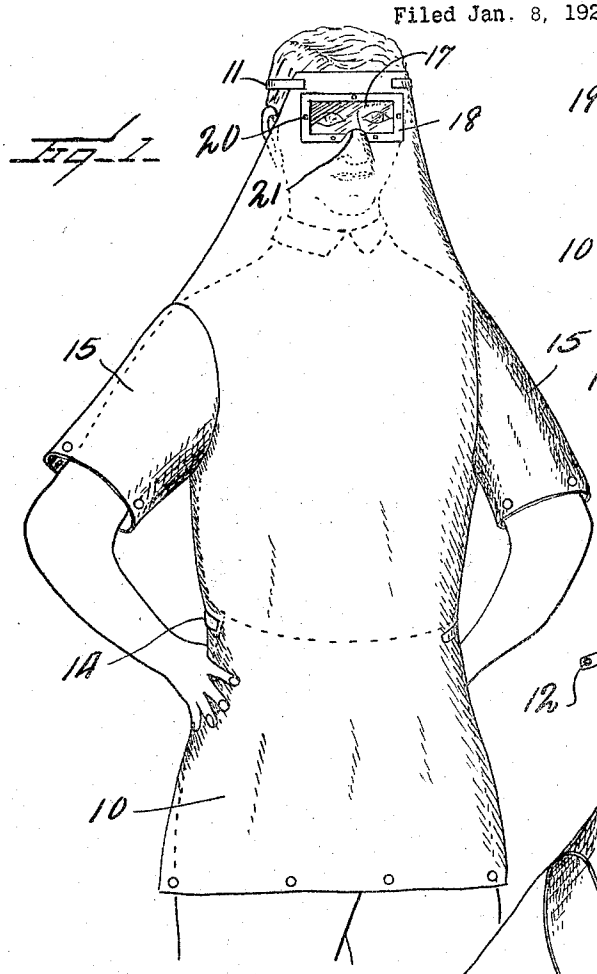


Fig. 1.

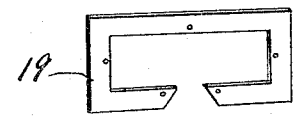


Fig. 4.

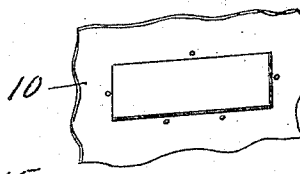
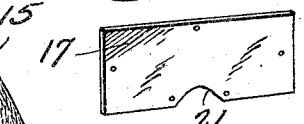


Fig. 5.



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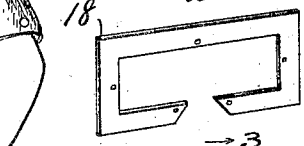

Fig. 7.

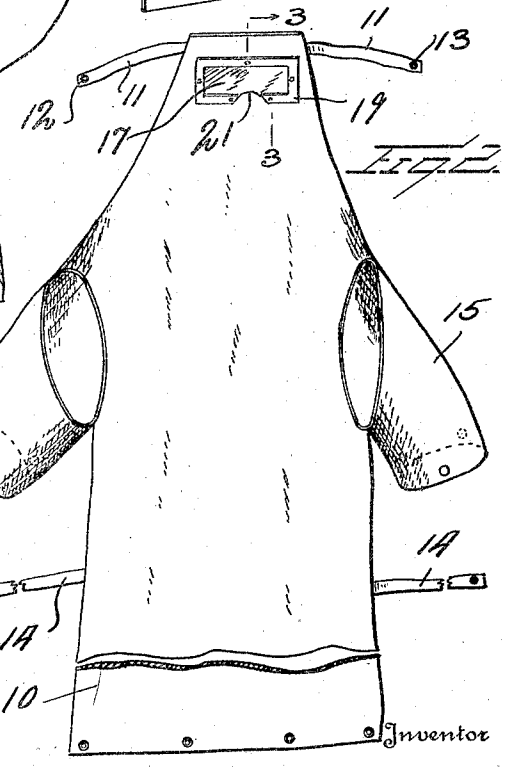

Fig. 2.

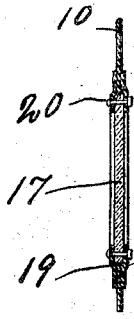

Fig. 3.

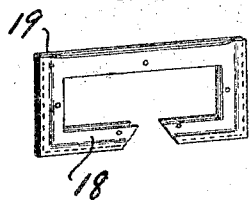

Fig. 8.

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MEDICAL AND SURGICAL APRON

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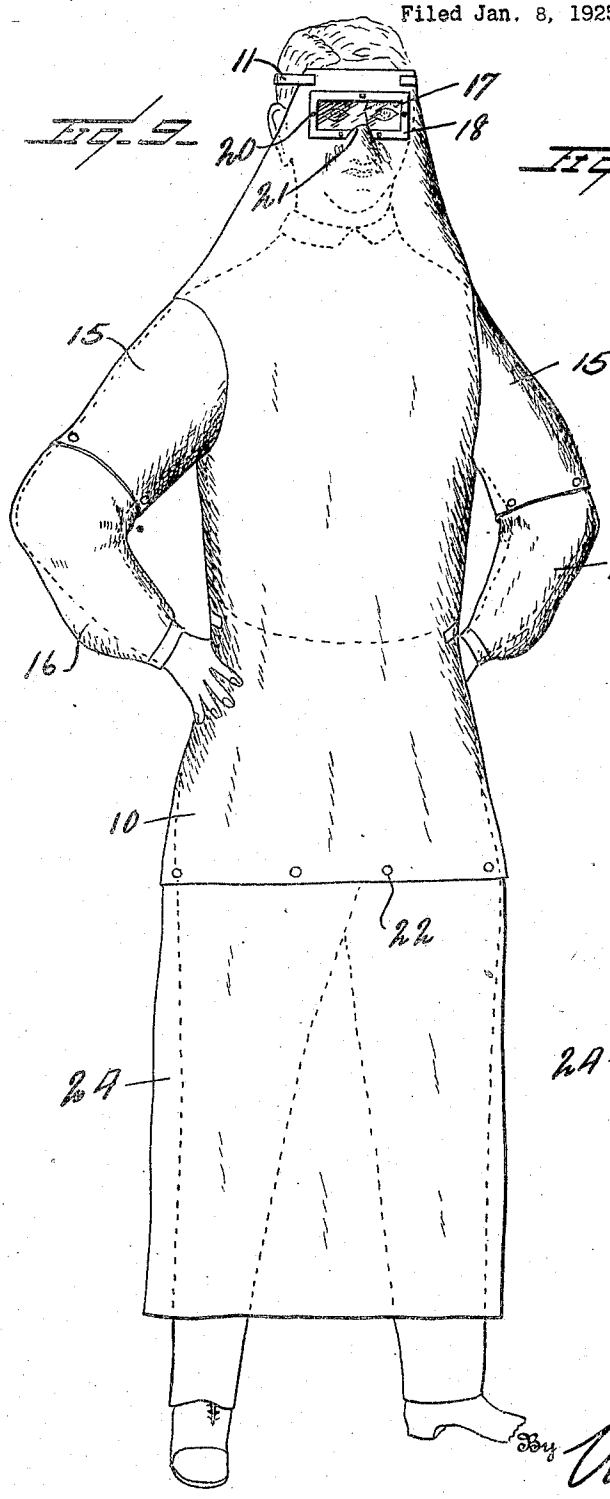


Fig. 9.

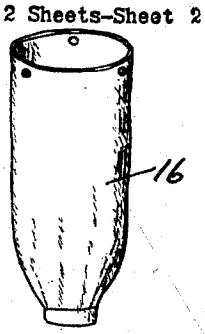


Fig. 10.

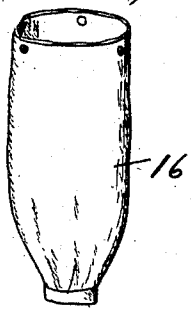
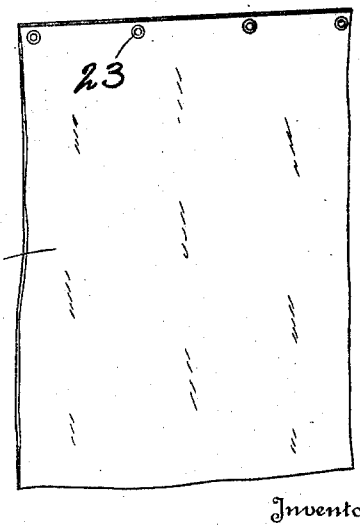


Fig. 11.

Fig. 12.



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Patented Nov. 10, 1925. 1,560,997

UNITED STATES PATENT OFFICE.

JAMES F. KELLY, OF MONESSEN, PENNSYLVANIA.

MEDICAL AND SURGICAL APRON.

Application filed January 8, 1925. Serial No. 1,225.

To all whom it may concern:

Be it known that I, JAMES F. KELLY, a citizen of the United States, residing at Monessen, in the county of Westmoreland and State of Pennsylvania, have invented certain new and useful Improvements in Medical and Surgical Aprons, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to apparel used by surgeons in performing operations or making examinations, and the object of the invention is to provide a medical and surgical apron to be used to cover the respiratory organs during operations and examinations by physicians, surgeons, attendants, nurses, etc.

One of the objects of the invention is to provide an article of apparel of this character which is adapted to be fastened to the forehead, extend down over the face and over the shoulders, and which is provided with relatively short sleeves, that portion of the article which extends over the face being provided with a transparent face plate either in the form of an ordinary pane of glass or a magnifying glass.

A further object is to provide a device of this character so constructed that relatively long sleeves or extensions of the short sleeves on the article may be attached thereto, and further to so construct the article that an extension may be applied to the lower margin of the cape or coat formed by the article so that an extension piece of fabric may be detachably engaged therewith to make a gown or full apron effect.

A still further object is to provide a device of this character which may be held securely to the body and yet will cover the entire front of the face and the upper portion of the body without impeding the free movement of the physician or surgeon.

My invention is illustrated in the accompanying drawings, wherein:—

Figure 1 is a perspective view showing my device in applied position;

Figure 2 is a perspective view showing the inside of the device;

Figure 3 is a section on the line 3—3 of Figure 2;

Figure 4 is a perspective view of the frame for the glass;

Figure 5 is a fragmentary view of the apron showing the cut-out for the glass;

Figure 6 is a perspective view of the glass pane;

Figure 7 is a view of the inside of the frame;

Figure 8 is a view showing the frames engaged with each other;

Figure 9 is a like view to Figure 1 but showing the manner in which an additional skirt and additional sleeve sections may be applied to the garment;

Figures 10 and 11 are perspective views of the sleeves;

Figure 12 is a fragmentary perspective view of the apron;

Referring to the drawings, it will be seen that my device comprises an apron 10 which may be made of rubber or cloth or any other suitable textile fabric which is capable of being kept in sanitary condition. This piece of textile fabric is narrower at its upper end that at its lower and is of sufficient length so as to extend from the forehead to the waistline. At the forehead there is attached to this piece of cloth a piece of rubber one inch wide, designated 11, which is vulcanized to the rubber fabric or sewed if other fabric is used, which rubber band extends around the head. One end of this rubber band is provided with a socket member 12 and the other is provided with a stud member 13, the stud member being insertible within the socket member to hold the band closed. Any other suitable fastening devices for this purpose may be used.

The apron 10 extends downward from the forehead over the nose and lower portion of the face and down to approximately the waist or to a point below the waistline. At its lower margin this coat or apron is formed with a rubber band 14 adapted to go around the waist and provided with fasteners, preferably such as the fasteners 12 and 13, for holding the band closed around the waist. At the shoulders the piece of fabric 10 has attached to it sleeve sections 15, which sleeves extend down the arm for about six inches. This short sleeve has on its lower margin a plurality of glove fasterner members, and an extension sleeve 16 is provided with coacting fastener members so that the extension sleeve 16 may be attached to the short sleeve 15 so that the extension sleeve may run to the wrist.

Inserted in the mask portion of the apron, that is that portion of the apron which covers the face, is a pane of glass 17. For the accommodation of this pane of glass the piece of rubber or cloth is cut out and the

margin of the opening is reinforced by a rubber or textile frame, as it may be termed, consisting of the outer and inner frame members 18 and 19 formed of textile fabric and stitched to the rubber or textile fabric of the apron so as to provide a rectangular pocket within which the pane of glass 17 may be inserted. These members 17 and 18 are apertured for the passage of screws or rivets 20 which pass through apertures in the glass so as to hold the glass firmly in place. Where the apron is made of textile fabric the upper member 18 is left unattached to the upper member 19 so as to permit the insertion of the glass 17, but where the article is made of rubber entirely and the frame is made of rubber this need not be done, as in this case the frame may be stretched over the glass so as to permit the insertion of the plate glass. Preferably, though not necessarily, this glass pane 17 will have the character of a magnifying glass, and whether it is a magnifying lens or plain glass the lower edge of the glass will be cut away, as at 21, to fit over the nose and the frame will be cut out or otherwise formed so as to fit over the nose. The lower margin of the apron 10 is provided with snap fastener members 22 which engage with coacting snap fastener members 23 on an apron extension 24 which is adapted to be attached, as shown in Figure 9, to the apron 10 and extend down to the ankles of the physician, if desired.

It will be seen that my device affords a facial apron which may be very conveniently applied, which does not in any way interfere with the manipulation, which entirely covers the upper portion of the body, and which is capable of having a skirt applied thereto or a sleeve extension applied thereto and which is preferably provided with a small power magnifying glass. It will be understood that it may be made of different kinds of sanitary fabric such as white rubber, and that the details might be varied in many respects without departing from the spirit of the invention as defined in the claim.

I claim:—

An article of the character described comprising a backless apron of textile fabric, the apron below its upper end being formed with sleeve sections through which the arms of the wearer may be disposed, the apron above the upper ends of these sleeve sections being gradually reduced in width and being formed to fit over the forehead and having a band at its upper end whereby it may be held upon the head, the apron immediately in front of that portion extending over the eyes of the wearer being formed with an observation opening, and a glass pane covering said opening.

In testimony whereof I hereunto affix my signature.

JAMES F. KELLY.