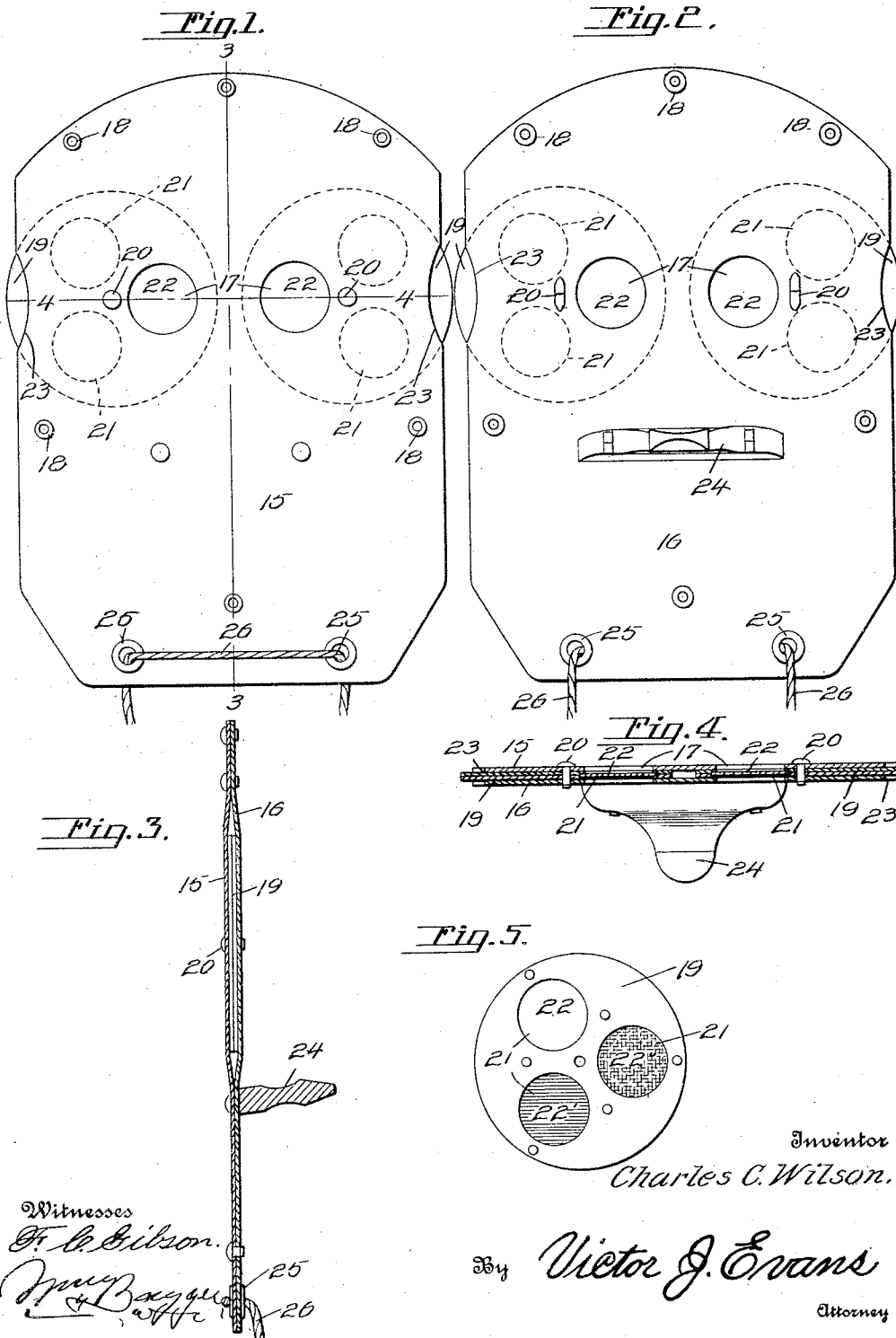


C. C. WILSON.
FACE AND EYE PROTECTOR.
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FACE AND EYE PROTECTOR.

1,178,435.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, CHARLES C. WILSON, a citizen of the United States, residing at Salem, in the county of Harrison and State of West Virginia, have invented new and useful Improvements in Face and Eye Protectors, of which the following is a specification.

This invention relates to face and eye protectors for workmen engaged in foundries and other places where great heat, together with a strong light from furnaces or from metals in a state of incandescence are encountered.

The invention has for its object to produce a face and eye protector which may be very readily held or supported in front of the face when required and which may be instantly released when the protection thereof is not needed.

A further object of the invention is to produce a face and eye protector which may be grasped between the teeth of the individual wearing the same to protect his face and eyes.

A further object of the invention is to produce a device of the character described equipped with eye holes protected by transparent pieces of glass or other sheet material which when desired may be colored to afford greater protection for the eyes.

A further object of the invention is to produce a device of the class described having eye holes and revoluble members each carrying a plurality of pieces of transparent sheet material for the protection of the eyes, some of said pieces being differently colored and others being uncolored, the object being to enable conditions to be produced whereby the eyes will be thoroughly and effectively protected according to the work in hand.

With these and other ends in view which will readily appear as the nature of the invention is better understood, the same consists in the improved construction and novel arrangement and combination of parts which will be hereinafter fully described and particularly pointed out in the claims.

In the accompanying drawing has been illustrated a simple and preferred form of the invention, it being, however, understood that no limitation is necessarily made to the precise structural details therein exhibited, but that changes, alterations and modifica-

tions within the scope of the claims may be resorted to when desired.

In the drawings,—Figure 1 is a front view of a device constructed in accordance with the invention. Fig. 2 is a rear view of the same. Fig. 3 is a vertical sectional view taken on the line 3—3 in Fig. 1. Fig. 4 is a transverse sectional view taken on the line 4—4 in Fig. 1. Fig. 5 is a detail view of one of the disks carrying a plurality of transparent eye protectors.

Corresponding parts in the several figures are denoted by like characters of reference.

The improved device in its preferred form is composed of two sheets called the front sheet 15 and the rear sheet 16, said sheets being preferably made of asbestos or material containing asbestos or other heat resisting and non-conductive material.

The sheets 15 and 16 are made of ample size and of suitable shape to protect the face of the wearer by projecting sufficiently beyond the contour thereof. The sheets 15, 16 are provided with registering eye-openings 17, and the sheets are suitably connected together by fastening members 18 located at suitable intervals along the edges and at suitable intermediate points.

Interposed between the sheets 15, 16 are two revoluble disks 19 mounted for rotation on pivot members 20, each of said disks having a plurality of apertures 21 which by rotating the disks may be placed in registry with the eye-openings 17, said apertures being obstructed by eye-protecting transparent pieces 22 of glass or other suitable material, and each disk 19 may be composed of two suitably connected members between which the transparent eye-protectors 22 are interposed; any other construction, however, whereby the transparent eye-protectors are properly connected with the disks may be adopted. Each disk has been shown as being equipped with three equidistant transparent eye-protectors, one of which, 22, is left uncolored, while the others, 22', 22'', are colored, respectively, blue and yellow. It will be understood that by properly proportioning the parts the number of eye-protectors may be varied and also that the colors thereof may be varied.

The front and rear sheets 15, 16 are provided with arcuate notches or recesses 23 through which the rotary disks 19 slightly project, enabling said disks to be con-

veniently rotated for the purpose of placing the desired transparent eye-protectors in registry with the eye-openings 17.

Suitably secured on the face of the rear sheet 16 is a mouth piece 24 which may be grasped between the teeth of the wearer who is thus enabled to support the device in front of his face and eyes to protect the same. The device is provided near its lower edge with eyelets 25 for the passage of a cord 26 which may be adjusted around the neck of the wearer who may thus carry the device supported on his chest. When it is required to protect the face the device may be quickly lifted with one hand to enable the mouth piece to be grasped by the teeth, and the protector may thus be supported in position as long as may be desired.

It has been discovered by practical experience that goggles and the like used as eye-protectors are cumbersome to wear and are frequently hurtful when permitted to remain in position when not actually needed to protect the eyes. Again, goggles have glass of only one color and are, therefore, not always desirable.

My improved device protects not only the eyes, but it also protects the face from the heat radiated from furnaces and from metals in an incandescent state. The transparent eye-protector may be adjusted to protect the eyes under various conditions. For instance, for some classes of work it is important that the workman should be able to see the natural color of the material operated upon; in such cases the colorless eye-protectors will be exposed for use. Under varying heat and light conditions various degrees of protection are desirable for the eyes, and such various degrees are afforded by differently and properly colored transparent protectors which may be quickly and easily brought into position by simply revolving the disks 19 about their axes.

Particular importance is attached to the facility with which the device may be placed in position for protecting the face and eyes by simply inserting the mouth piece between the teeth of the operator and to the equal facility with which it may be removed from protective position by simply letting go of the mouth piece.

The improved device is extremely simple

in its construction and is capable of being manufactured and supplied at a moderate expense.

Having thus described the invention, what is claimed as new, is:—

1. A face protector having transparent eye guards, and a mouth piece whereby it may be supported in advance of the face by the teeth of the wearer.

2. A face protector having a mouth piece, transparent eye guards, and a neck encircling cord whereby the protector may be supported on the chest of the wearer when not in use.

3. A face protector embodying a sheet of material of ample size to guard the entire face of the wearer, said sheet having eye openings, transparent eye guards and a mouth piece; and a neck encircling cord connected with said sheet adjacent to the lower edge thereof and whereby the said sheet may be suspended on the chest of the wearer.

4. A face protector having a mouth piece, eye-openings and transparent eye-protectors obstructing said openings.

5. A face protector having supporting means, eye-openings, and revoluble disks each carrying a plurality of transparent eye-protectors, some of which are colored, said eye-protectors adapted to obstruct the eye-openings.

6. A face protector having a mouth piece, eye-openings, a neck encircling cord, and revoluble disks each carrying a plurality of transparent eye-protectors adapted to obstruct the eye-openings, some of said protectors being colored.

7. A device of the class described comprising a front and rear sheet suitably connected together, said sheets having registering eye-openings, disks supported for rotation between the sheets, each disk having a plurality of transparent eye-protectors, some of which are colored, a mouth piece fixed on the rear sheet, and a neck engaging cord connected with the device.

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

CHARLES C. WILSON.

Witnesses:

R. C. YOUNG,
L. J. SHAHAN.