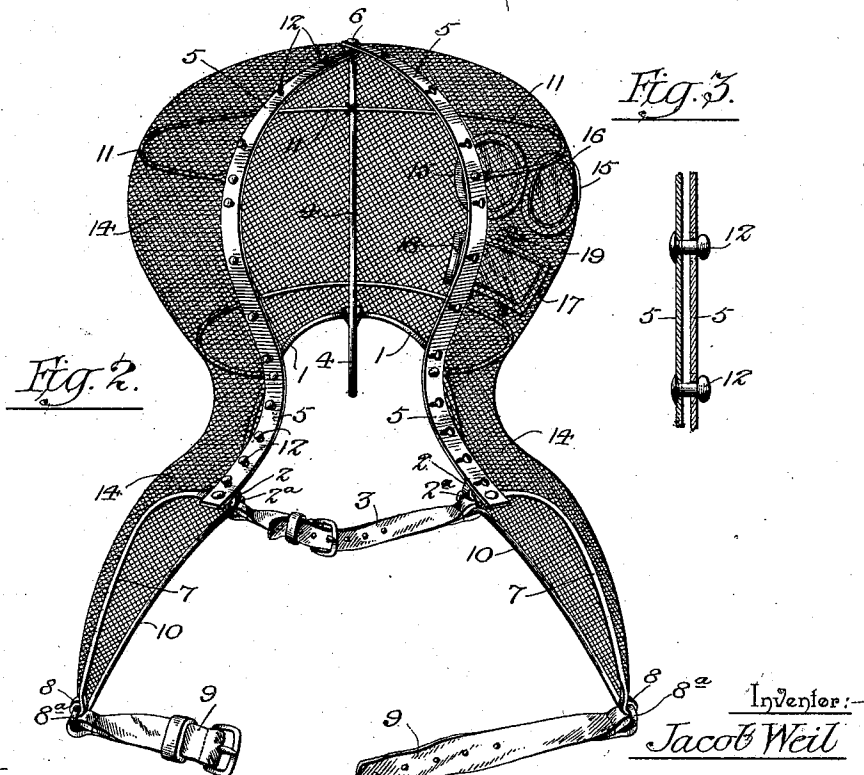
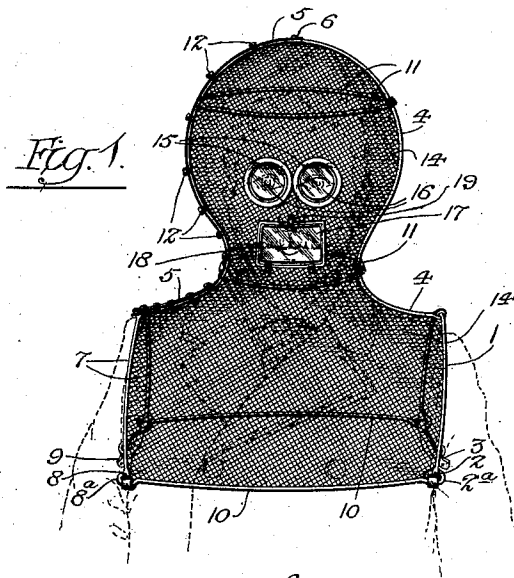


(No Model.)

J. WEIL.
FACE AND NECK PROTECTOR.

No. 603,306.

Patented May 3, 1898.



Witnesses:-

Louis M. Whitehead.
Edwin Cruise.

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UNITED STATES PATENT OFFICE.

JACOB WEIL, OF LAS ANIMAS, COLORADO.

FACE AND NECK PROTECTOR.

SPECIFICATION forming part of Letters Patent No. 603,306, dated May 3, 1898.

Application filed November 6, 1897. Serial No. 657,673. (No model.)

To all whom it may concern:

Be it known that I, JACOB WEIL, a citizen of the United States, residing at Las Animas, in the county of Bent and State of Colorado, have invented a new and useful Face and Neck Protector, of which the following is a specification.

This invention relates to guards or protectors designed to protect the face and neck of the wearer from bees, mosquitos, flies, and other insects which are likely to sting or otherwise annoy a person; and the object of the invention is to provide a simple, efficient, and durable device of this character which can be easily and quickly secured in position or removed whenever necessary.

With this object in view the invention consists of the several details of construction, combination, and arrangement of parts, as will be hereinafter fully described, and particularly pointed out in the claims.

In the drawings, Figure 1 is a front perspective view of a protector made in accordance with my invention in position on the wearer. Fig. 2 is a perspective view of the protector removed and in its open position. Fig. 3 is a sectional detail of the locking-strips.

Similar reference-numerals indicate similar parts in the several figures.

The device is made up of a frame formed of spring-wire and spring-metal strips and a covering of fine wire-netting secured in any suitable manner upon the frame. The frame will first be described.

1 indicates a yoke made of wire and adapted to fit over one shoulder of the wearer, each of its arms being bent to form an eye 2.

4 indicates a wire leading from the yoke about midway its bend, and this wire is bent to conform to the general outline of the shoulder, neck, and one side of the head of a person. It extends about half-way across the top of the head and is connected at its end to two strips of spring metal, (indicated by 5,) the three parts being secured together by a rivet 6, which serves as a pivot on which the two strips can turn. These two strips are shaped to correspond in general outline to the shoulder, neck, and head of a person, and in this respect are like the wire 4, and when the frame is in its closed position these strips

will lie one above the other in the same vertical plane and form, practically, a continuation of the wire 4.

7 indicates wire rods having their upper ends bent inwardly toward each other and secured to the lower ends of the respective strips 5, and when the strips are in their closed position the rods 7 will form a yoke for the other shoulder corresponding in shape substantially with the yoke 1. The lower ends of these rods are also bent to form eyes, (indicated by 8.)

10 indicates a pair of substantially horizontal brace-bars having their respective ends bent to form loops 2^a and 8^a, which engage in the eyes 2 and 8 of the respective yokes, and these rods are adapted to bear against the chest and back of the wearer, and as they will be of spring metal they will conform closely the shape of the wearer. Straps 3 and 9 are secured to the eyes 2^a and 8^a, respectively, and are adapted to be buckled under the armpits of the wearer to prevent vertical displacement of the protector.

11 indicates horizontally-disposed curved rods connected, respectively, about midway their length to the wire 4 and at their respective ends to the metal strips 5. As shown, these wires 11 practically form rings around the neck and upper part of the head of the wearer when the two strips 5 are secured together, but on account of their resilience will permit the frame to be sprung open to fit over the head of the user or remove it therefrom. The under strip 5 is provided with a series of upwardly-projecting headed pins 12, which are firmly secured to it in any suitable manner, and the upper strip is provided with a similar series of loop-holes to receive the respective pins and thus detachably lock the two strips together.

14 indicates a covering of fine wire-netting, which is fitted over the frame and secured to it in any suitable manner, it being of course understood that the wire-netting will be divided on one side of the frame and the edges of the dividing-slit secured, respectively, to the strips 5, in order that the protector can be opened on one side. Two frames 15 will be secured to the netting around openings opposite the eyes, which frames are designed to hold glass, mica, or other transparent ma-

terial, (indicated by 16,) and a similar frame 17 will be secured to the netting around an opening therein opposite the mouth of the wearer, and this frame will be provided with a hinged door or flap, (indicated by 18,) which latter may be provided with a locking-catch 19, if preferred. By using the hinged door or flap the wearer will be able to insert anything into or remove it from his mouth.

In order to fit the structure in position, the fastening devices of the strips 5 will be disconnected and the protector sprung open on one side, after which the device can be easily fitted over the head and neck of the person by moving it sidewise, and the strips 5 can then be fastened together and the yokes will be in position over the shoulders, when by securing the straps at the lower ends of the yokes the device will be securely held in position on the wearer.

From the foregoing description it will be seen that I have produced an exceedingly simple, efficient, and durable device for the purpose of protecting the face and neck of the wearer from obnoxious insects and that the device can be easily fitted on or removed whenever desired.

Changes in the form, proportion, and the minor details of construction may be resorted to without departing from the spirit or sacrificing any of the advantages of this invention.

Having thus described the invention, what I claim is—

1. A face and neck protector, comprising a supporting-frame to fit over the head, neck and shoulders of the wearer and adapted to be sprung open on a vertical line at one side thereof said frame being formed in part of similarly-constructed strips pivoted at their upper ends to each other and to a fixed part of the frame and having their lower ends connected to movable parts of the frame, a covering of wire-netting secured to the frame, and means applied to the said strips to lock the frame in its closed position, substantially as described.

2. A face and neck protector, comprising a supporting-frame to fit over the head, neck and shoulders of the wearer, said frame being formed in part of two strips of metal arranged one above the other on one side of the frame and pivoted together at their upper ends and to a fixed part of the frame, and connected at their lower ends to movable parts thereof, one strip having a series of headed pins and the other a series of loopholes to fit over said pins, and a covering of wire-netting to fit over said frame, substantially as and for the purposes specified.

3. A face and neck protector, comprising a skeleton frame adapted to fit over the head and neck of the wearer and having shoulder-yokes one of which is divided, said frame being formed of spring-wire and two superposed strips of spring sheet metal, connected at their lower ends to the respective sections of the divided shoulder-yoke, and pivotally con-

nected together at their upper ends and to a fixed part of the frame, means to detachably lock the strips together, and a covering of wire-netting secured to the frame, said netting being divided on one side and secured to the respective metal strips, substantially as described.

4. A face and neck protector, comprising a skeleton frame adapted to fit over the head and neck of the wearer, and having a covering of wire-netting secured thereto, said frame and covering being adapted to open on a vertical line on one side thereof, and the frame having a shoulder-yoke at each side, one of the yokes being separable, and side strips connecting the parts of the separable yoke with the upper fixed part of the frame and straps at the lower ends of the yokes to fit under the armpits of the wearer, substantially as described.

5. In a protector for the head and neck, the combination of shoulder-yokes, one of which is separable at a medial point, side pieces conforming to the outline of the head, neck and shoulders and having their lower ends secured to the middle portion of the fixed shoulder-yoke and to the separable ends of the other shoulder-yoke, and having their upper ends meeting and pivotally connected, fastening means applied to the separable or complementary members of the side strips having connection with the separable shoulder-yoke, and wire-netting secured to the shoulder-yokes and side pieces, substantially as set forth.

6. In a head and neck protector, the combination of a fixed and a separable shoulder-yoke, and a side piece conforming approximately to the outline of the head, neck and shoulder secured at its lower end to the fixed shoulder-yoke, and corresponding side pieces composed of complementary members pivotally connected at their upper ends to each other and to the upper end of the first-mentioned side piece and having their lower ends secured to the upper terminals of the parts of the separable shoulder-yoke, fastening means applied to the complementary members of the separable side piece, front and rear brace-bars connecting corresponding end portions of the shoulder-yokes, means for securing the lower terminals of the shoulder-yokes and the outer extremities of the front and rear brace-bars, and a wire-netting secured to the shoulder-yokes, front and rear brace-bars and to the side pieces, substantially as set forth.

7. The herein-described head and neck protector, comprising a fixed and a separable shoulder-yoke, a side piece conforming approximately to the outline of the head, neck and shoulder secured at its lower end to the upper portion of the fixed shoulder-yoke, a corresponding side piece composed of complementary members pivotally connected at their upper ends and to the fixed side piece and having their lower ends connected with the extremities of the parts of the separable shoulder-yoke, substantially as set forth.

der-yoke, fastening means applied to the parts comprising the separable side piece, upper and lower horizontally-disposed curved rods connected midway of their ends to the fixed
5 side piece and at their extremities to the complementary parts of the separable side piece, front and rear horizontal brace-bars connected with corresponding lower terminals of the
10 shoulder-yokes, means for connecting the extremities of the shoulder-yokes, and front and rear brace-bars, and a meshed covering se-

cured to the shoulder-yokes, front and rear brace-bars and to the said side pieces and extending over the curved rods and held distended thereby, substantially as set forth. 15

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

JACOB WEIL.

Witnesses:

JOHN R. IRWIN,
P. A. LEEDHAM.