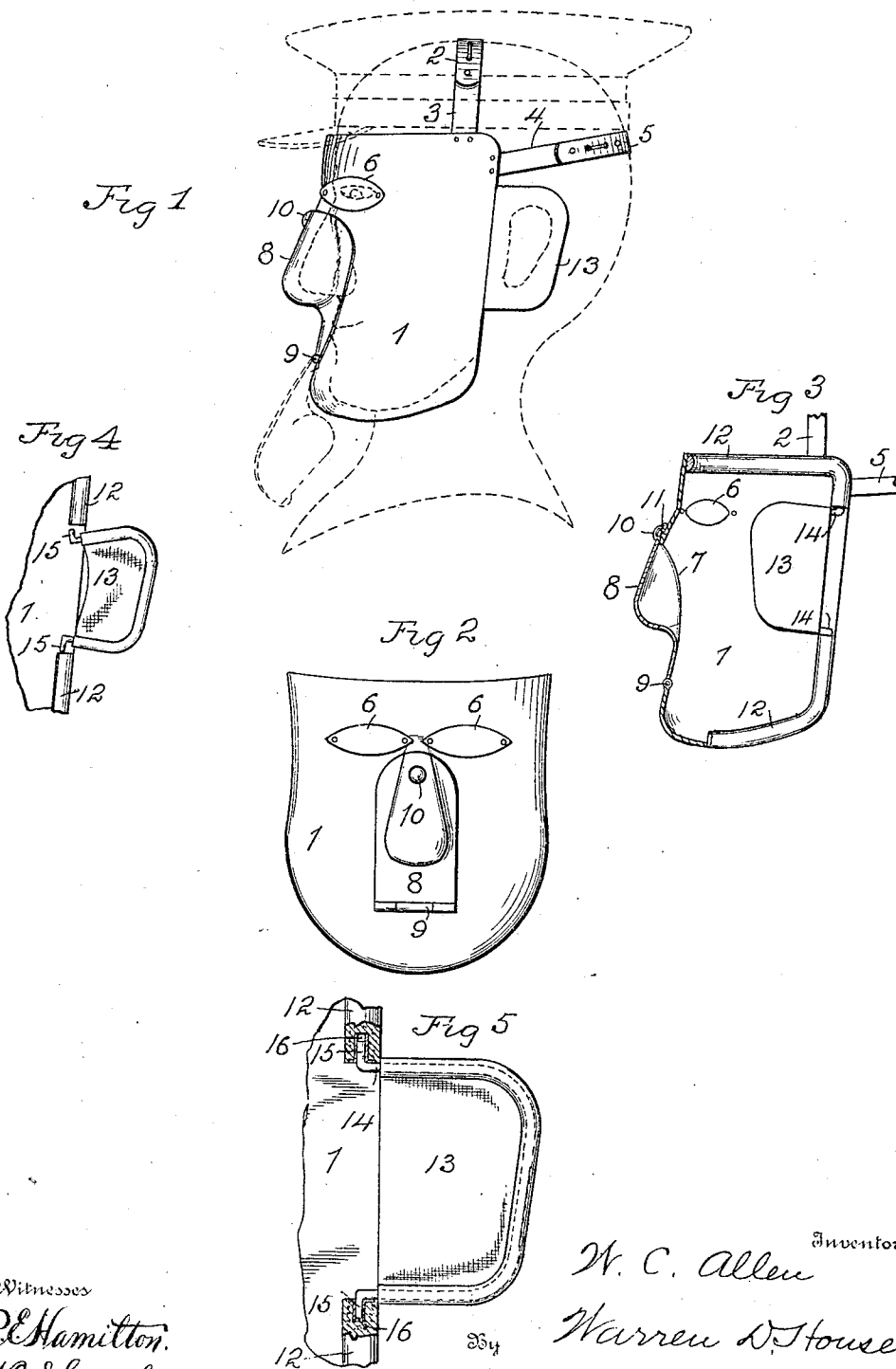


No. 825,170.

PATENTED JULY 3, 1906.

W. C. ALLEN.
FACE PROTECTOR.
APPLICATION FILED SEPT. 21, 1905.



Witnesses
R. Hamilton.
W. Lingle.

Inventor
W. C. Allen
Warren D. House,
His Attorney

UNITED STATES PATENT OFFICE.

WILBURN C. ALLEN, OF KANSAS CITY, MISSOURI.

FACE-PROTECTOR.

No. 825,170.

Specification of Letters Patent.

Patented July 3, 1906.

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To all whom it may concern:

Be it known that I, WILBURN C. ALLEN, a citizen of the United States, residing at Kansas City, in the county of Jackson and State of Missouri, have invented new and useful Improvements in Face-Protectors, of which the following is a specification.

My invention relates to improvements in face-protectors.

10 The object of my invention is to provide a device which will protect the face and ears from the cold and from dust or dirt.

My invention is particularly well adapted for use by persons riding upon rapidly-moving vehicles, such as automobiles, locomotives, or electric cars.

My invention provides a mask having suitable means for being secured to the head, the mask having a transparent portion for the eyes and an opening for the nose and mouth, a closure having suitable locking means being provided for said opening.

My invention provides, further, a closure for the nose and mouth opening which is hinged to the mask in a manner such that it may be swung downward by gravity when it is desired to uncover said opening.

My invention provides, further, two ear-flaps, preferably detachable from the mask and so hinged thereto that they may be swung between the mask and face when it is desired to uncover the ears.

My invention provides, further, a ridge or raised portion around the inner side and along the edges of the mask for retaining the body of the mask out of contact with the face.

Other novel features are hereinafter fully described and claimed.

In the accompanying drawings, Figure 1 is a side elevation view of the mask mounted upon a person's head, the head being shown in dotted lines, the adjacent ear-flap being shown in position for covering the ear, and the closure for the nose and mouth opening being shown in solid lines in the closed position and in dotted lines in the open position. Fig. 2 is a front view of the mask, showing the closure in the closed position. Fig. 3 is a central longitudinal sectional view of the mask. Fig. 4 is an inner side elevation view of part of the mask and one of the ear-flaps, the ear-flap being shown compressed ready for detachment. Fig. 5 is an inner side elevation view of a portion of the mask and one

of the ear-flaps secured thereto, portions of the ridge on the inner side of the mask being shown in vertical section, disclosing the sockets therein and the pivot projections of the ear-flap.

Similar characters of reference denote similar parts.

1 denotes the body of the mask, preferably having the general contour of a person's face and provided with a lower end adapted to cover the chin. Secured upon opposite sides to the upper end of the mask are two straps 2 and 3, provided with means of any suitable character for being adjustably connected to each other and adapted to be passed over the top of the head for supporting the mask therefrom. Two straps 4 and 5 are secured to opposite sides of the mask and are provided with means for being adjustably secured to each other and are adapted to embrace the rear side of the head for securing the mask to the face. The mask is provided with two transparent portions 6, adapted to register, respectively, with the eyes when the mask is properly positioned. The mask is provided with an opening 7 for the nose and mouth and may be closed by means of a closure 8, hinged below the opening 7 at the point 9 in a manner such that the closure is swung downwardly when moved to the open position and retained in such position by gravity, thus dispensing with the necessity of holding the closure by the hand in the open position. A locking device is provided to retain the closure in the closed position. A preferable form of locking device is of the kind ordinarily used for a glove-fastener. In the locking device illustrated the closure 8, adjacent its upper end, is provided with a socket 10, adapted to receive therein and hold by friction a pin 11, secured to the mask above the opening 7. To retain the body of the mask out of contact with the face, the inner side of the mask around its edges is provided with a raised portion or ridge 12, preferably of some pliable material, such as cork, felt, sponge, or soft rubber. For covering the ears two flaps 13 are provided, each being preferably compressible and provided with means by which, when compressed, they may be detached from the mask. The ear-flaps are preferably hinged to the mask in a manner such that they may be swung when not in use between the face and mask, the

ridge 12 serving to provide a space between the face and mask for so positioning the flaps.

In the preferable form of construction each flap has a body portion, of velvet or other suitable material, secured around its edges, excepting along the edge abutting against the mask, to a resilient U-shaped wire 14, the ends of which are turned so as to form projections 15, adapted to enter and be pivotally mounted in recesses 16, provided therefor in the mask. The ridge 12 at each side of the mask has a cut-out portion between the ends of which is mounted the adjacent ear-flap. Opposing ends of each cut-out portion of the ridge have provided therein the socket 16. To detach the flaps 13, the wires 14 are compressed at their ends, as shown in Fig. 4, thus withdrawing them from the socket 16 and permitting the removal from the mask of the flaps. To limit the movement outwardly of the flaps 13, the edge of each flap adjacent the mask abuts against the adjacent edge of the mask, as shown in Figs. 1 and 5. This construction, however, permits the inwardly swinging of the flaps 13 prior to the fitting of the mask to the head to the position represented in Fig. 3.

In using my invention the mask is applied to the face with the flaps 13, when used, positioned as shown in Fig. 1. The straps 2, 3, 4, and 5 are then mounted on the head and adjusted relative to each other to positions for suitably positioning the mask. If for any purpose it is desired to uncover the opening 7, the locking device of the closure 8 is released and the closure is swung downward to the position shown in dotted lines in Fig. 1. To remove the ear-flaps, it is but necessary to compress them to the position indicated in Fig. 4, after which they may be detached.

My invention may be variously modified without departing from its spirit.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

1. A face-protector comprising a mask having means for securing to the head, transparent portions adapted to register with the eyes, an opening adapted to be disposed before the nose and mouth, a closure hinged to the body of the mask for closing said opening and two flaps hinged to the body of the mask for covering the ears.

2. A face-protector comprising a mask having means for securing to the head, the body having transparent portions adapted to register with the eyes and having an opening adapted to be disposed before the nose and mouth, a closure hinged to the body of the mask for covering said opening and two detachable flaps for covering the ears and provided with means for securing to the body of the mask.

3. A face-protector comprising a mask hav-

ing means for securing to the head and having transparent portions adapted to register with the eyes, and an opening for registering with the nose and mouth, a closure for said opening, and two flaps for covering the ears hinged to the body of the mask and detachable therefrom.

4. A face-protector comprising a mask having means for securing to the head the body having transparent portions adapted to register with the eyes, and an opening for the nose and mouth, a closure for said opening hinged to the body so as to swing downward when swung to the open position, and two detachable flaps for covering the ears and hinged to the body so as to be swung clear of the ears when they are not used as a covering therefor.

5. A face-protector comprising a mask having means for securing to the head and provided with transparent portions for the eyes and an opening for the nose and mouth, a closure for said opening hinged to the mask so as to swing downward for uncovering the opening, releasable means for locking the closure in a closed position, and two flaps for covering the ears and hinged to the mask so as to be swung when not in use, to a position uncovering the ears.

6. A face-protector comprising a mask having means for securing to the head, and two flaps for covering the ears hinged to the mask so as to be swung between the mask and face when not used as coverings for the ears.

7. A face-protector comprising a mask having means for securing to the head and two flaps for covering the ears hinged to the mask and detachable therefrom.

8. A face-protector comprising a mask having means for securing to the head and two detachable flaps for covering the ears held engaged with the body of the mask by spring-pressure and releasable therefrom when compressed in the proper manner.

9. A face-protector comprising a mask having means for securing to the head and having on its inner side around the edges a ridge for retaining the mask out of contact with the face, the mask having transparent portions for the eyes and an opening for the nose and mouth, a closure for said opening and hinged so as to be swung downward to the open position, releasable means for locking the closure in a closed position, and two flaps for covering the ears hinged to the mask so as to be swung to positions between the mask and face when not in use.

10. The combination with a mask having on its inner side around its edges a ridge having at each side of the mask portions cut out of the ridge to receive the ear-flaps, of the two ear-flaps hinged to the mask in said cut-out portions of the ridge respectively.

11. The combination with a mask having on its inner side around its edges a ridge hav-

ing at opposite sides cut-out portions provided each with two sockets, of the two ear-flaps each having two projections fitted in the adjacent sockets so that the flaps may be swung to position for covering or uncovering the ears.

12. The combination with a mask having four sockets disposed two at each side, of two ear-flaps each having two projections normally held by spring-pressure in the two adjacent sockets, each ear-flap being compressible so that the projections thereon may be removed from said sockets.

13. The combination with a mask having means for securing to the head and having transparent portions for the eyes and an opening for the nose and mouth, of a closure for said opening hinged to the mask so as to be swung downward when moved to the open position, and two detachable compressible flaps for covering the ears and having means

for pivotally engaging the mask, said pivotal means being released from the mask when the flaps are properly compressed.

14. A face-protector provided with a mask having means for securing to the head, the mask having means for covering the ears and provided with transparent portions for the eyes and having an opening for the nose and mouth, a closure for said opening pivoted to the mask so as to swing downward when moved to the open position, and releasable means for locking the closure in the closed position, the mask having a raised portion on its inner side and around its edges.

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

WILBURN C. ALLEN.

Witnesses:

WARREN D. HOUSE,
M. W. ADKINS.