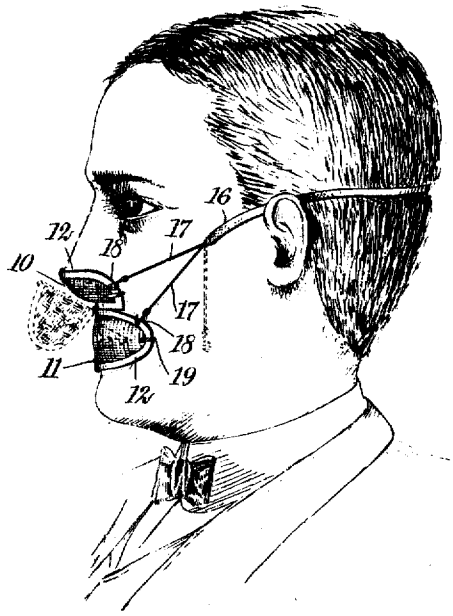
B. WOOLF & T. W. RICHARDS.

MOUTH AND NOSE PROTECTOR.

APPLICATION FILED JULY 8, 1908.

925,409. Patented June 15, 1909.

Fig. 1



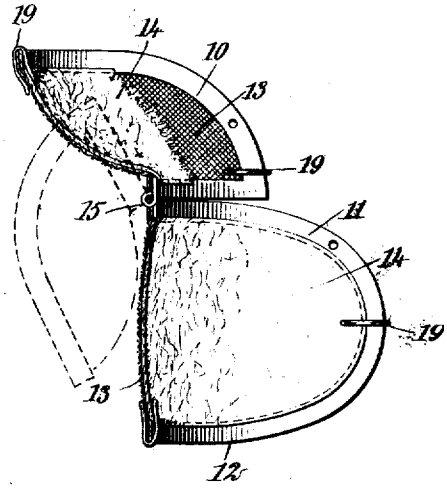


Fig. 2

WITNESSES

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BENJAMIN WOOLF AND THOMAS WATKINS RICHARDS, OF NEW YORK, N. Y.

MOUTH AND NOSE PROTECTOR.

No. 925,409. Specification of Letters Patent. Patented June 15, 1909.

Application filed July 8, 1908. Serial No. 442,465.

To all whom it may concern:

Be it known that we, BENJAMIN WOOLF and THOMAS WATKINS RICHARDS, both citizens of the United States, and residents of the city of New York, borough of Brooklyn, in the county of Kings and State of New York, have invented a new and Improved Mouth and Nose Protector, of which the following is a full, clear, and exact description.

This invention relates to certain improvements in devices adapted for use in covering the mouth and nose, to prevent the admission of dust or other flying particles or germs.

The object of the invention is to so construct the guard that either the nose or the mouth may be uncovered, without uncovering the other and without removing the guard or protector.

Our invention consists in the forming of the guard of two separate sections flexibly connected together, one adapted to cover the mouth and the other adapted to cover the nose, and used in connection with a support which serves to hold both sections in their proper position.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in both the figures, and in which—

Figure 1 is a side elevation showing our improved guard at it appears when in use, and showing in dotted lines, the mouth protector in its raised position; and Fig. 2 is a central vertical section showing in dotted lines the nose protector in its lowered position.

In the specific form of guard or protector illustrated in the accompanying drawings, we provide two main sections 10 and 11, so connected together as to permit relative movement. Each section is provided with an outer marginal or peripheral frame 12, preferably formed of metal, and within the frame is an outer layer or sheet of wire netting 13, and within the wire netting is a layer or sheet 14 of medicated cotton or other similar fabric or material adapted to prevent the passage of fine dust and germs. The wire netting is preferably permanently secured to the frame, but the inner layer of cotton or the like, is readily removable to permit of its replacement when soiled or no longer efficient. The inner layer may be held in place in any suitable manner, but there are preferably employed clips 19, which inclose the edge of the frame and have inwardly-extending prongs for resiliently holding the edges of the cotton to the wire netting.

The lower section 11 is substantially elliptical in shape and is adapted to fit over the mouth and a small portion of the lips and cheeks. The upper section 10 is secured at its lower edge by a hinge 15 to the upper edge of the lower section, and said upper section is so formed as to fit about the nostrils and prevent the admission of any air save that passing through the wire netting and medicated cotton. The pivot pin of the hinge extends transversely and is disposed intermediate the mouth and nose, so that the upper section may be turned down to uncover the nostrils, or the lower section may be raised to uncover the mouth, independently of the other section. In connection with the hinge I may employ a spring.

For securing our improved guard or protector in position, we employ a band 16, adapted to partially encircle the head of the wearer, and having at each end thereof two cords or other members 17, terminating in hooks 18 engaging with the frame of the sections adjacent their ends. The cords are so disposed that the hooks at the end of either one of them, may be disconnected from the corresponding section of the guard, and the lower section folded upwardly, as indicated in Fig. 1, or the upper section folded downwardly, as indicated in Fig. 2.

Our improved device is especially adapted for nurses and physicians in the treatment of contagious diseases, as the medicated lining serves to prevent the admission of germs, but it is equally adapted for use by street cleaners, or others who work in a dust-laden atmosphere, whether germs are present or not.

Having thus described our invention, we claim as new and desire to secure by Letters Patent:

A mouth and nose protector, including two sections, one adapted to cover the mouth and

the other adapted to cover the nostrils, each of said sections having a metal frame, an outer layer of wire netting and an inner layer of medicated cotton, a hinge connecting said sections, and a band adapted to extend around the head of the wearer and having separate cords at the ends thereof for supporting said sections independently.

In testimony whereof we have signed our names to this specification in the presence of two subscribing witnesses.

BENJAMIN WOOLF.
THOMAS WATKINS RICHARDS.

Witnesses:
BENJ. L. DUBOCQ,
GEO. M. NACHTMANN.