

No. 768,626.

PATENTED AUG. 30, 1904.

B. RAUTENBERG.
HEAD, FACE, AND NECK MUFFLER.

APPLICATION FILED APR. 15, 1904.

NO MODEL.

2 SHEETS—SHEET 1.

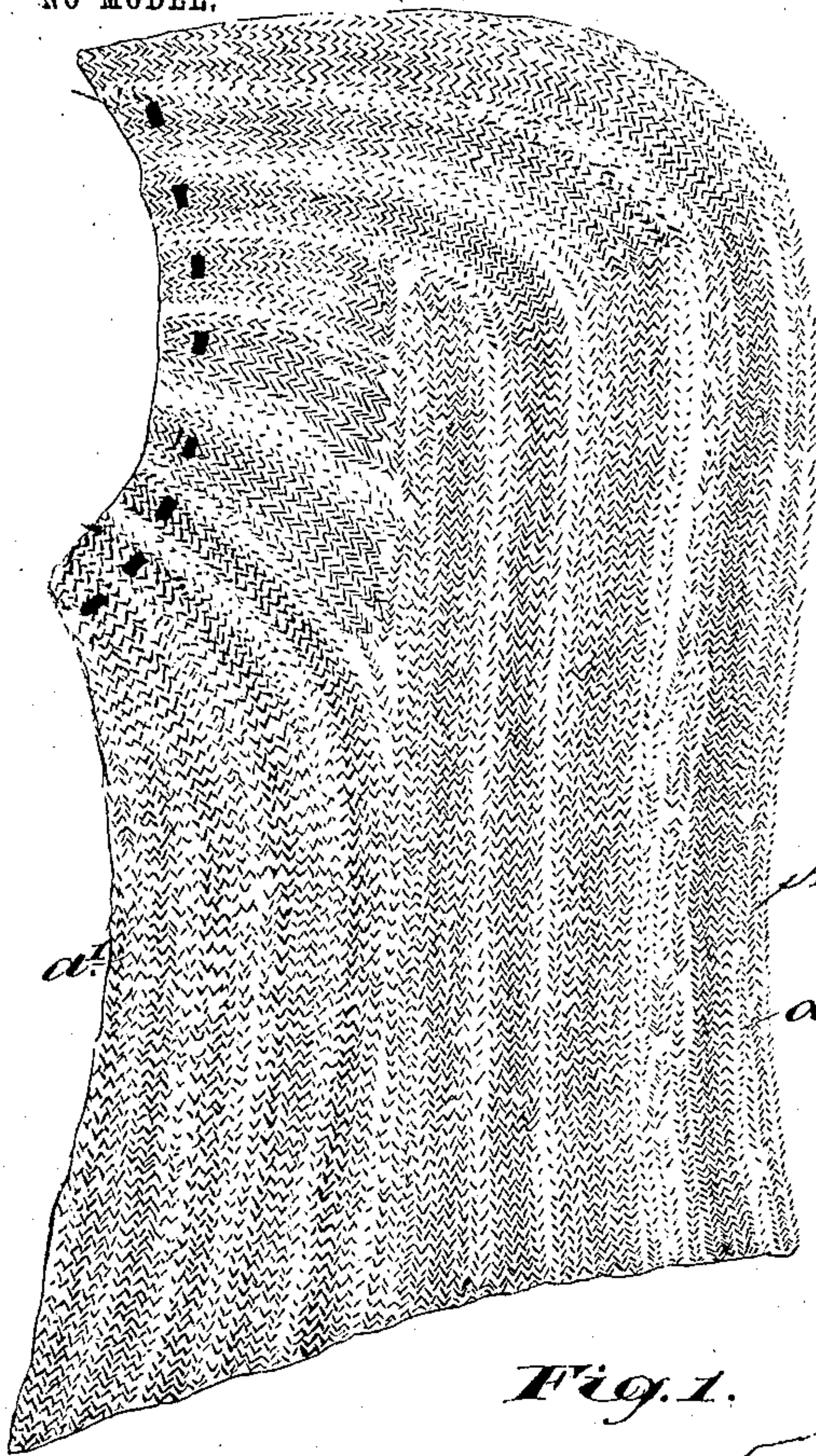


Fig. 1.

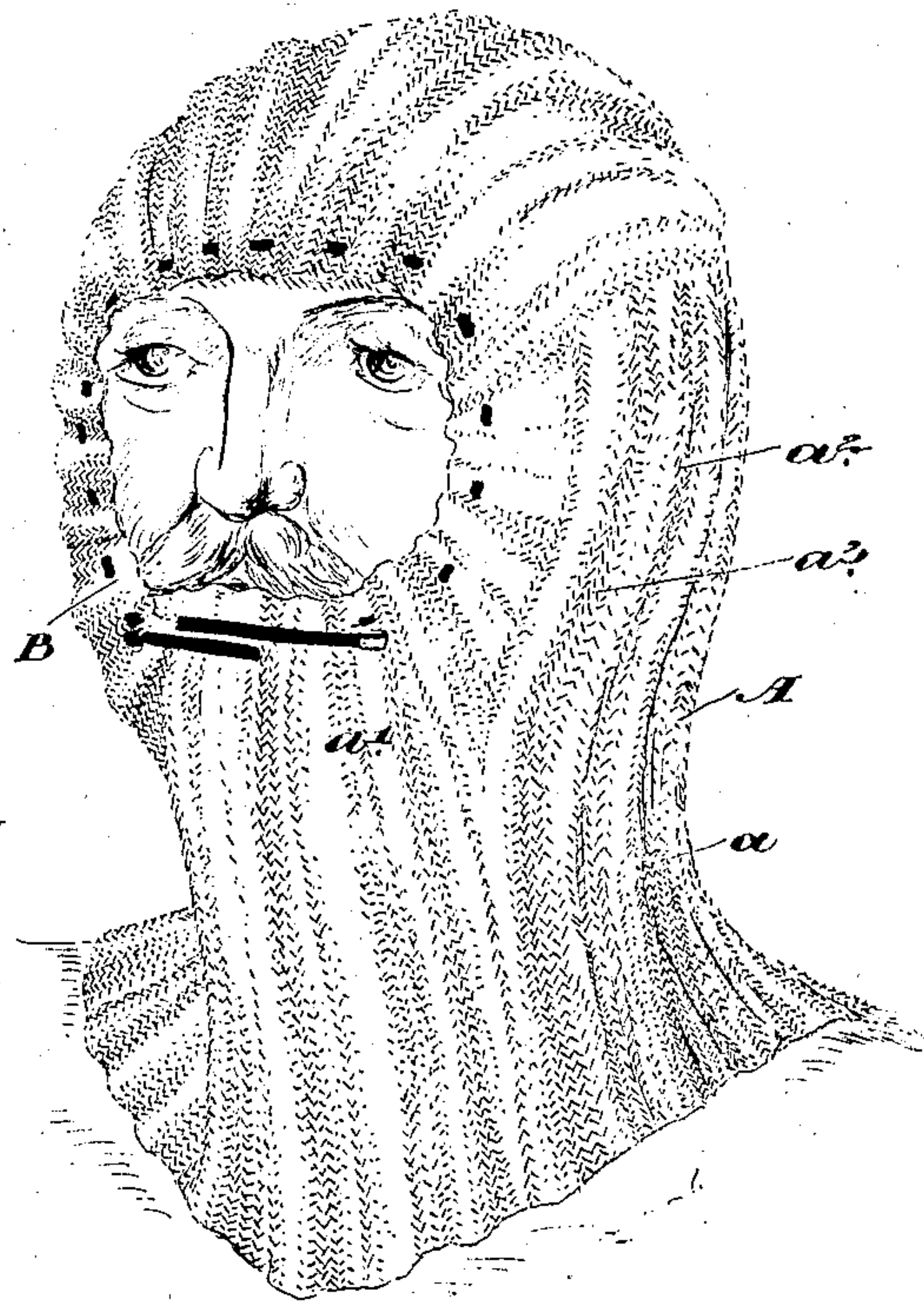


Fig. 2.

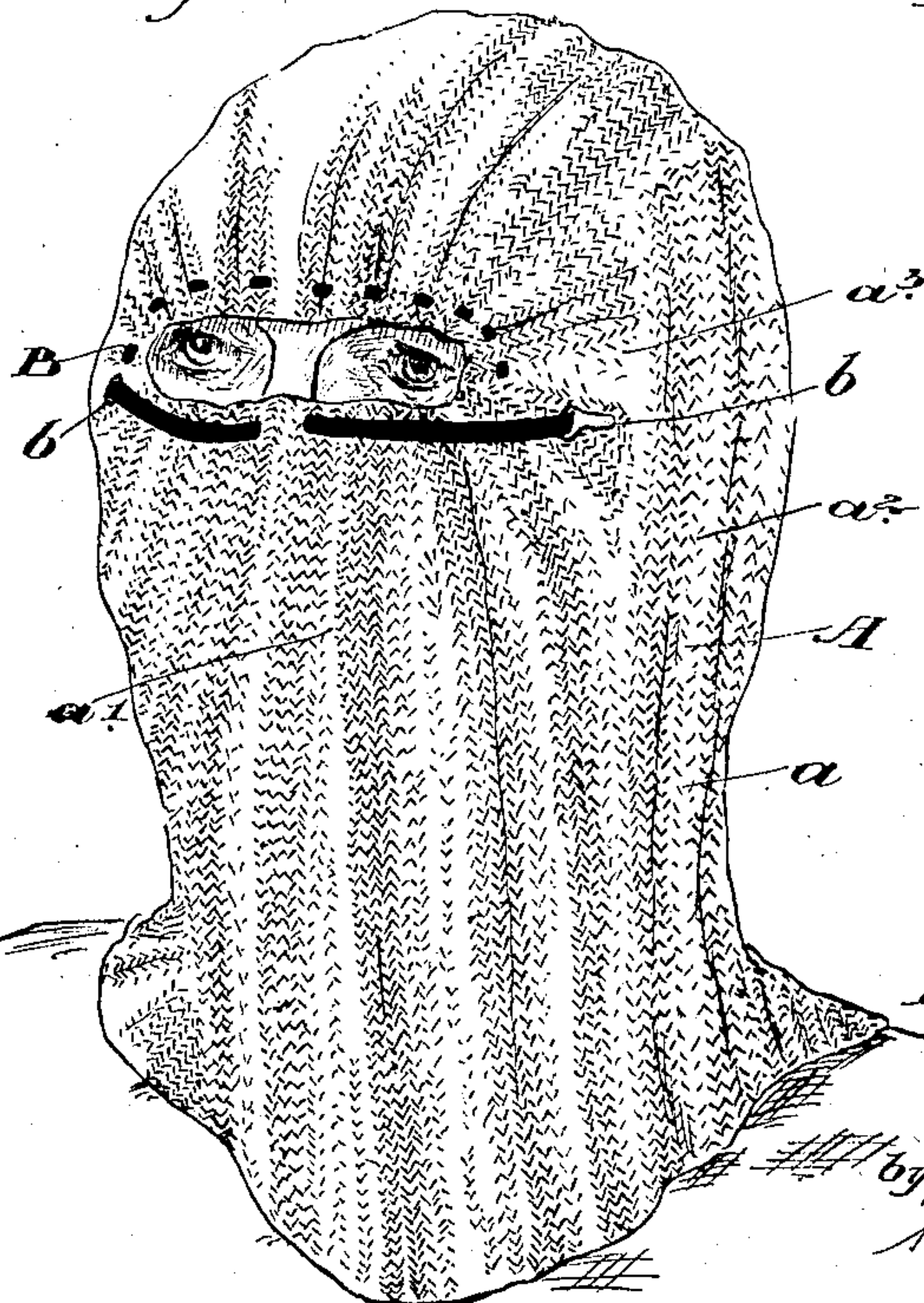


Fig. 3.

Witnesses.

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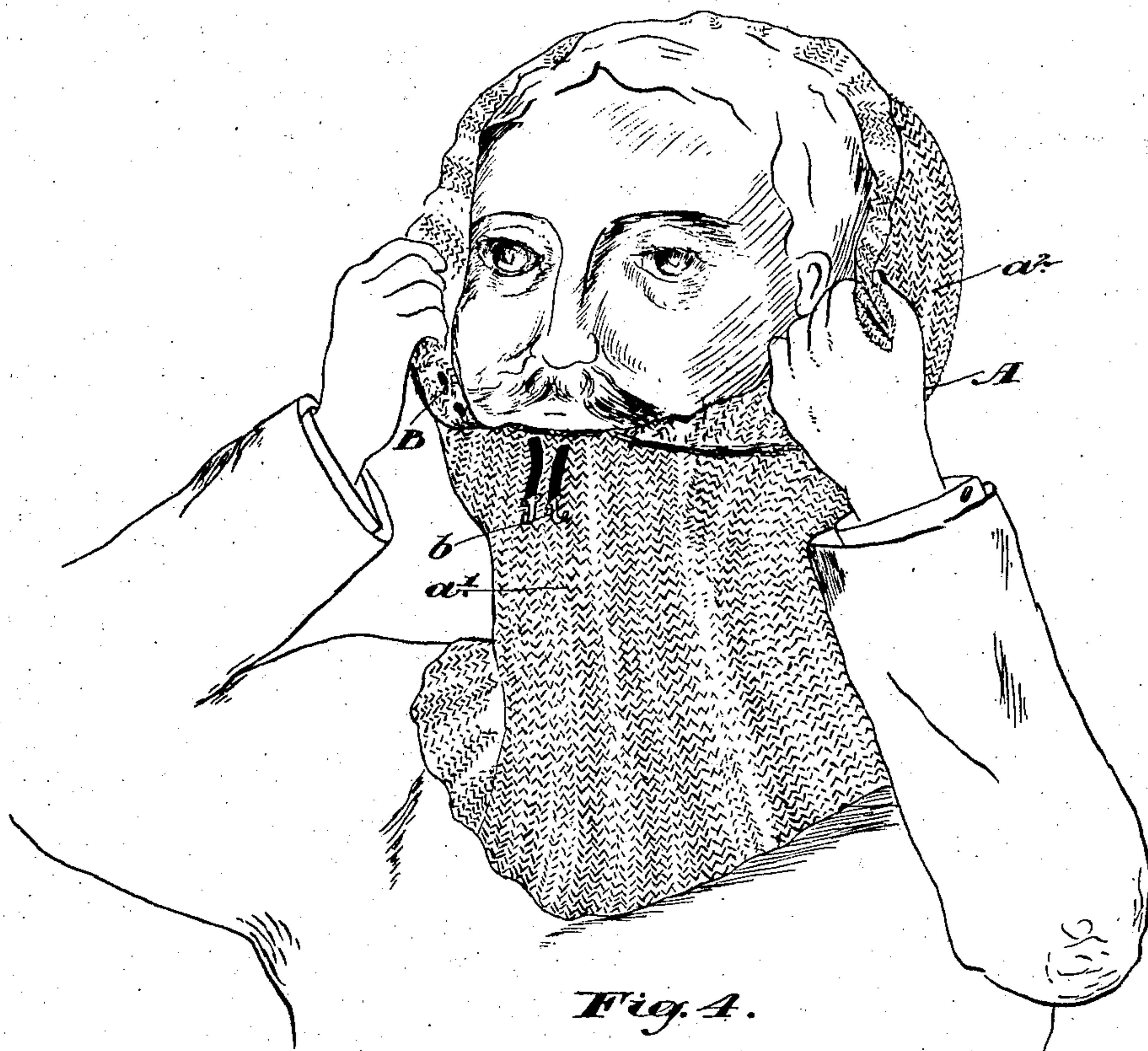


Fig. 4.

Fig. 5.



Witnesses.

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UNITED STATES PATENT OFFICE.

BERNARD RAUTENBERG, OF TORONTO, CANADA.

HEAD, FACE, AND NECK MUFFLER.

SPECIFICATION forming part of Letters Patent No. 768,626, dated August 30, 1904.

Application filed April 15, 1904. Serial No. 203,273. (No model.)

To all whom it may concern:

Be it known that I, BERNARD RAUTENBERG, of the city of Toronto, in the county of York, in the Province of Ontario, Canada, have invented certain new and useful Improvements in Head and Face and Neck Mufflers, of which the following is the specification.

My invention relates to improvements in head and face and neck mufflers; and the object of the invention is to devise a muffler which may be adapted to cover the head and face for the most part, or the head and leave the face exposed, or simply the neck, and thereby prevent, when used on the head, freezing of the cheeks and nose and yet at the same time not prevent free breathing, while permitting of hearing and free respiration; and it consists, essentially, of a muffler knitted of woolen yarn in elastic rib form, so as to provide an opening whereby it may be placed over the head and around the neck, and an opening for the face, the ribs at the back of the muffler passing around to the front over the head, and the ribs at the front of the muffler passing up to the edge of the front opening, and the ribs in the central side portions of the muffler being so formed as to lie parallel to the aforesaid ribs and reach to the ribs at the top, and ribs being also formed between the ribs at the top of the head portion of the muffler, and the ribs at the front of the muffler extending from the rear of the opening to the side ribs, an elastic band being provided in the edge of the muffler for the face opening, such band being provided at the end with hooks or other fastening devices, whereby the amount of the face to be exposed may be regulated as may be desired and as hereinafter more particularly explained.

Figure 1 is a side view of the muffler as formed. Fig. 2 is a view of the muffler used to cover both the neck and head, the major portion of the face being left exposed. Fig. 3 is a view showing the muffler adjusted so as to only expose the eyes and upper portion of the nose. Fig. 4 is a view of the muffler being drawn back, so as to spread open the edge of the face portion and enable it to be drawn down onto the neck. Fig. 5 is a view of the

muffler as drawn down over the neck so as to leave the head free.

In the drawings like letters of reference indicate corresponding parts in each figure.

A is the body of the muffler, which is made of woolen yarn knitted in elastic rib form, comprising the back and top ribs a of the head portion, terminating in the face-opening and neck-opening, the front ribs a' , terminating in the neck-opening and the face-opening, the central side ribs a'' , lying parallel to the ribs a and a' , but terminating at the top against the ribs a , and the supplemental ribs a''' , terminating in the face-opening and in the side of the ribs a'' . The edge of the face-opening is provided with suitable openings in the knitting to admit an elastic band B, which is provided with end hooks b or other suitable fastening devices.

In Fig. 2 I show the muffler drawn down over the head and neck and leaving an opening sufficiently large so as to expose a considerable portion of the face. The hooks b are hooked back into the muffler so as to hold the opening at any desired size.

In Fig. 3 the hooks are hooked back so as to expose only the eyes and upper portion of the nose, the opening being designed to be so contracted in very cold weather.

In Fig. 4 I show the opening expanded, so as to enable the muffler to be drawn down onto the neck.

In Fig. 5 I show the muffler in a roll on the neck with the hood portion extending backwardly between the shoulders.

Such a muffler as I describe and as I have found by experience is most practical, as when the mouth is covered, as indicated in Fig. 3, breathing is not interfered with or no frost or ice will form on the inside of the knitted fabric. Undue perspiration of the head and neck are also avoided on account of the freedom of respiration which is afforded by such knitted fabric. It will also be seen that the hearing is not interfered with as in any form of muffler or ear-lugs which has been formerly utilized. By means of the band B, I am also enabled to contract and hold the face-opening at any desired size,

which is an important desideratum. It will also be seen that my muffler being elastically knitted will fit any-sized head, whether child or adult, and it is particularly adaptable for driving in cold weather.

What I claim as my invention is—

1. A muffler composed of knitted rib fabric having a neck-opening and a face-opening, the back and top of the said hood being formed of ribs extending continuously from the neck-opening up the back and over the top to the face-opening, the front of the hood being composed of ribs running from the neck-opening to the face-opening, and the side portions consisting of ribs running from the neck-opening parallel to the front and rear ribs, and substantially at right angles to the top ribs, the terminal point of the said side ribs being at the edge of the top ribs, and ribs radiating

from the side edge of the face-opening to the side ribs and lying between the top and front ribs, and means for stretching the ribs longitudinally to contract the face-opening, substantially as described.

2. A muffler consisting of a knitted fabric having a face-opening with a draw-string extending through the fabric at the edge of the face-opening, the ends of the said draw-string being located at the lower part of the face-opening and extending toward the side of the hood in opposite directions, and hooks on the ends of the draw-string adapted to engage the fabric, substantially as described.

BERNARD RAUTENBERG.

Witnesses:

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C. H. BATE.