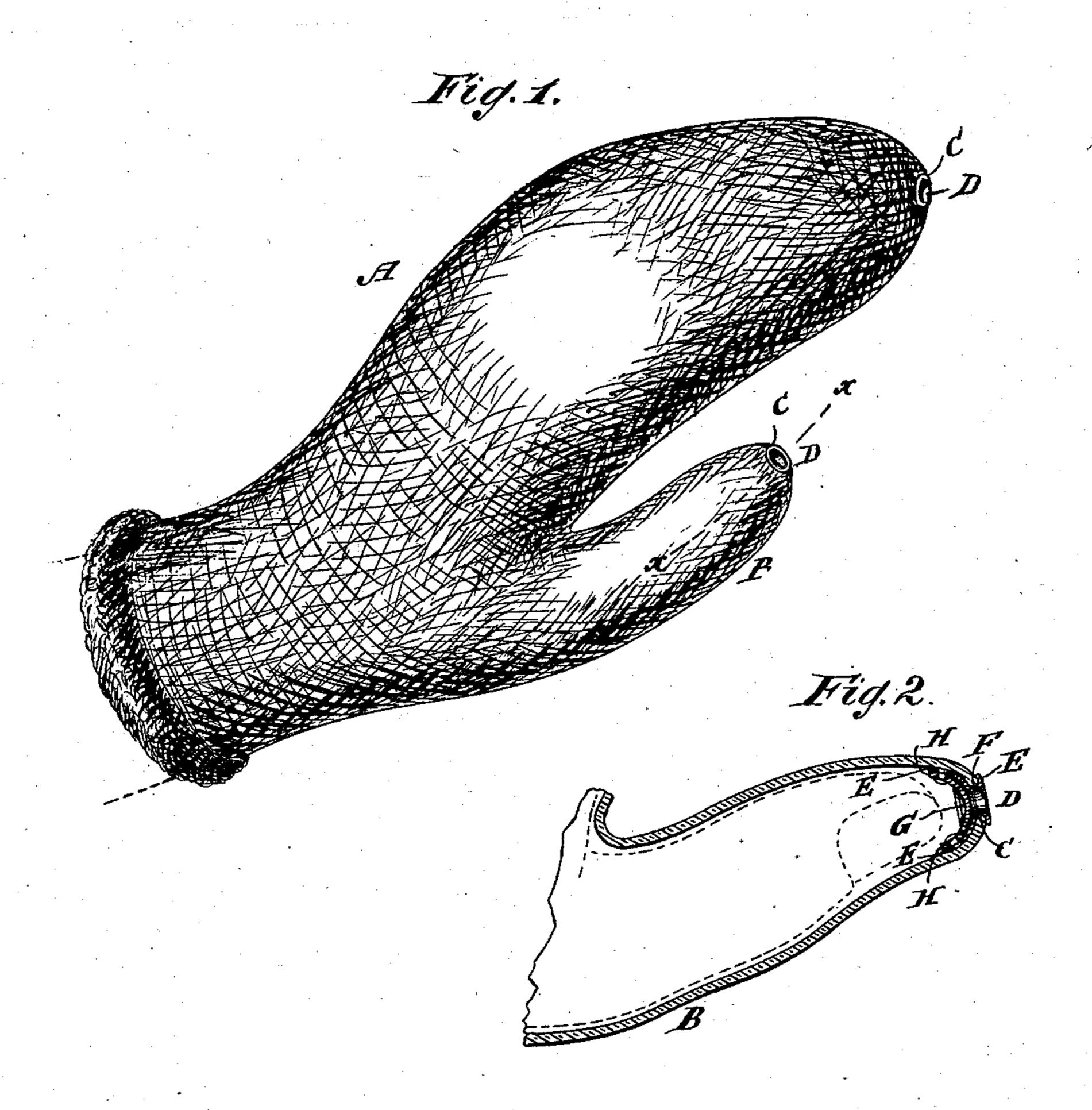
(No Model.)

J. ARBUCKLE.
MITTEN, &c.

No. 406,690.

Patented July 9, 1889.



Hig.3.

WITNESSES:

Eduard Wolff.

INVENTOR

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United States Patent Office.

JOHN ARBUCKLE, OF BROOKLYN, NEW YORK.

MITTEN, &c.

SPECIFICATION forming part of Letters Patent No. 406,690, dated July 9, 1889.

Application filed December 6, 1888. Serial No. 292,774. (No model.)

To all whom it may concern:

Be it known that I, John Arbuckle, a citizen of the United States, residing at Brooklyn, in the county of Kings and State of New York, have invented new and useful Improvements in Gloves, Mittens, &c., of which the

following is a specification.

This invention relates to coverings for the hands—such as gloves, mittens, and similar articles; and it consists in providing them with inlet-valves, which permit air from the mouth to be forced into the interior of the glove or mitten for the purpose of warming the fingers when cold, as fully described in the following specification, reference being had to the accompanying drawings, in which—

Figure 1 represents a mitten to which the invention is applied. Fig. 2 is a longitudinal section through the thumb, taken on the line x x of Fig. 1. Fig. 3 is a plan of the valve.

When wearing mittens or gloves in cold weather one often is troubled with cold fingers, notwithstanding the protection of the garment, while the body of the hand feels sufficiently warm. This experience is common when one is driving in a severely cold atmosphere, as it is not convenient then to put the hands under additional covering. Much suffering results from this cause; and the object of this invention is to provide means for warming the fingers and hands when exposed to a low atmosphere without being required to remove the glove or mitten and expose the hands before a fire or radiator of heat.

In carrying out the invention I combine with gloves or mittens or other coverings for the hands an air-valve, which I place in the ends or tips of the glove fingers and thumbs, and in the case of mittens in the ends of the hand and thumb parts, so that the wearer can blow or breathe warm air from the mouth into the glove or mitten through the valve-passage, so as to come in contact with the fingers and thumbs and warm them, as well as other parts of the hand.

In the present example the invention is shown applied to a mitten, the ends of the 50 hand part and thumb of the mitten being provided with a valve-passage and valve.

In carrying out my invention, referring to the example of the mitten A, as shown in the drawings, I perforate the end of the thumb B of the mitten, and in the perforation 55 C insert an open tube or eyelet D, whose ends E E are made to overlap the edge F of the perforation on both the inner and outer surfaces of the fabric of the mitten in such a manner as to fasten the tube to the thumb B 60 similar to the action of the flanges of an eyelet-fastening. The edge F of the perforation surrounds the tube D, and is held in place by the overlapping ends E E of the tube, and in case the edge F is not held by them with suf- 65 ficient firmness the said edge can be fastened in place by a strand of wire or other suitable means. The inner end of the tube D is closed by an elastic self-closing valve G consisting of a flat piece of india-rubber of 70 sufficient diameter to cover the inner end of the tube D, and having on opposite sides flanges H H, which are riveted to the edge of the inner flange E, such valve being thus spring-pressed and automatically closing out- 75 wardly to prevent the egress of air. The edges of the valve G are not confined, but merely rest against the surface of the inner flange E of the tube, where it is held by its own elasticity, which is overcome and the 8c valve opened by the pressure of air against it from without when the wearer of the garment blows into the tube, thereby permitting warm air from the mouth to enter and come in contact with and warm the thumb or fingers. As 85 soon as he ceases to blow into the tube the valve G closes by its own action. A similar valve and air-passage is applied to the ends of the fingers and thumbs of gloves.

I do not confine myself to any special con- 90 struction of spring-pressed outwardly-closing valve and air-passage or to the special means shown of connecting the same to the mitten or glove, as modifications may be made without departing from the spirit of my invention. 95

I am aware that gloves have been provided at their back with attached bags to be inflated with air forced thereinto by a tube, and that a shoe has been provided with an outwardlyopening valve for the egress of air therefrom; 100 but such do not constitute my invention and are not claimed by me. What I claim as new, and desire to secure by

Letters Patent, is—

As an improved article of manufacture, a glove or mitten for the hand, provided with an air-passage and a spring-pressed valve which closes outwardly to prevent the egress of air and opens inwardly to permit air being blown into the glove or mitten from the mouth to warm parts of the hand, substantially as described.

In testimony whereof I have hereunto set my hand and seal in the presence of two subscribing witnesses.

JOHN ARBUCKLE. [L. s.]

Witnesses:

W. C. HAUFF,

E. F. KASTENHUBER.