

(No Model.)

W. B. SPENCER.

INHALER.

No. 314,485.

Patented Mar. 24, 1885.

Fig. 1.

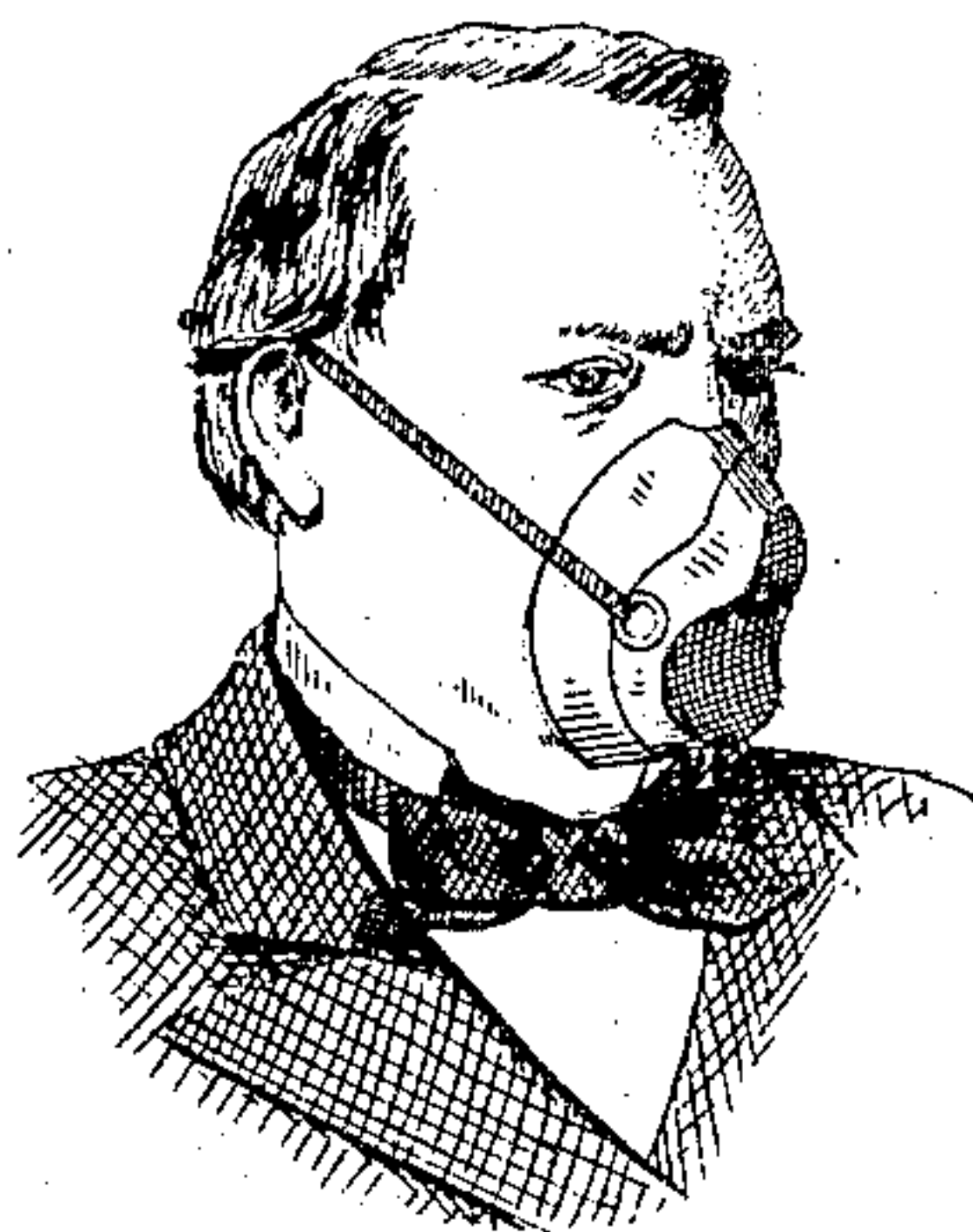


Fig. 3.

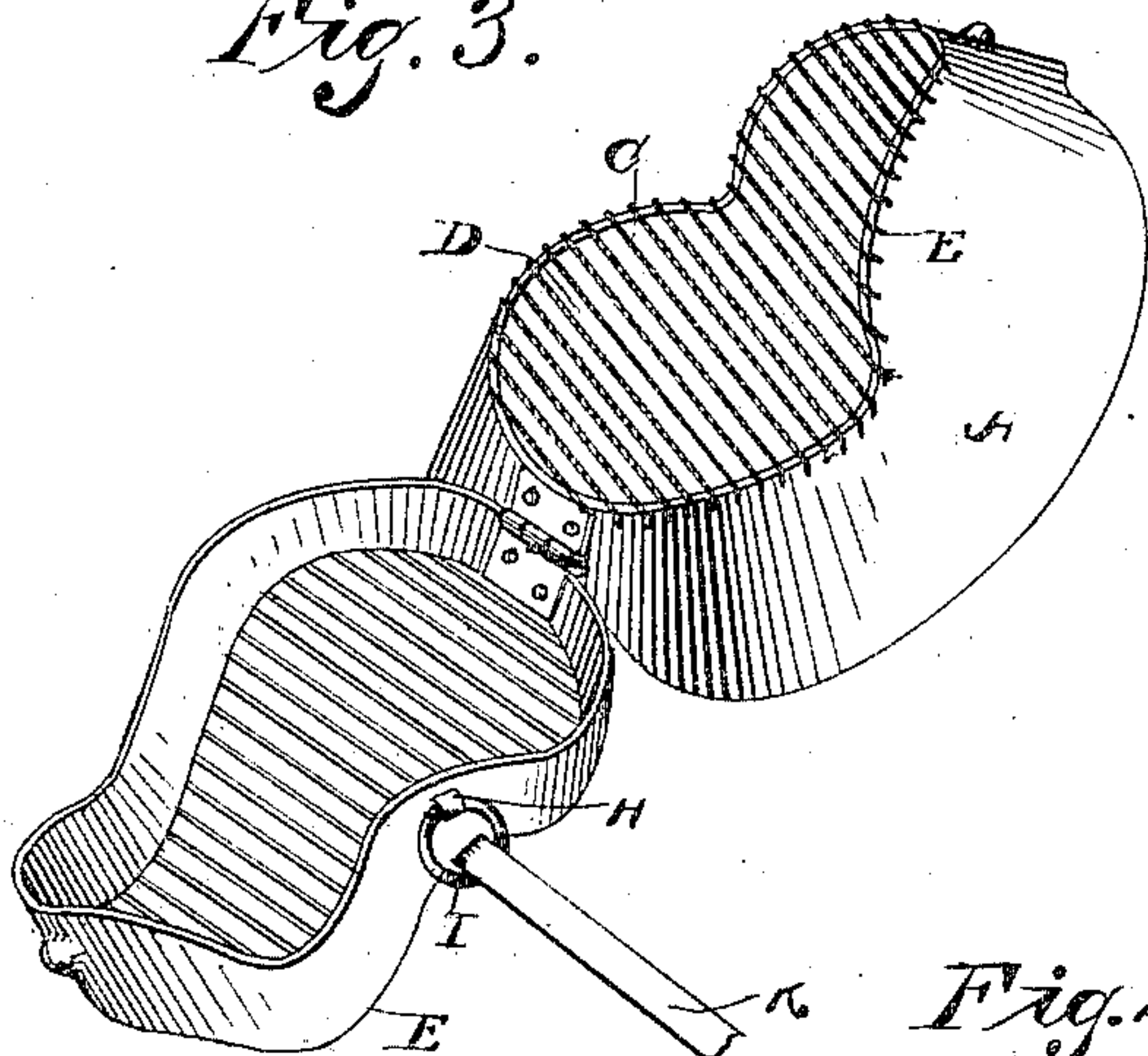


Fig. 4.

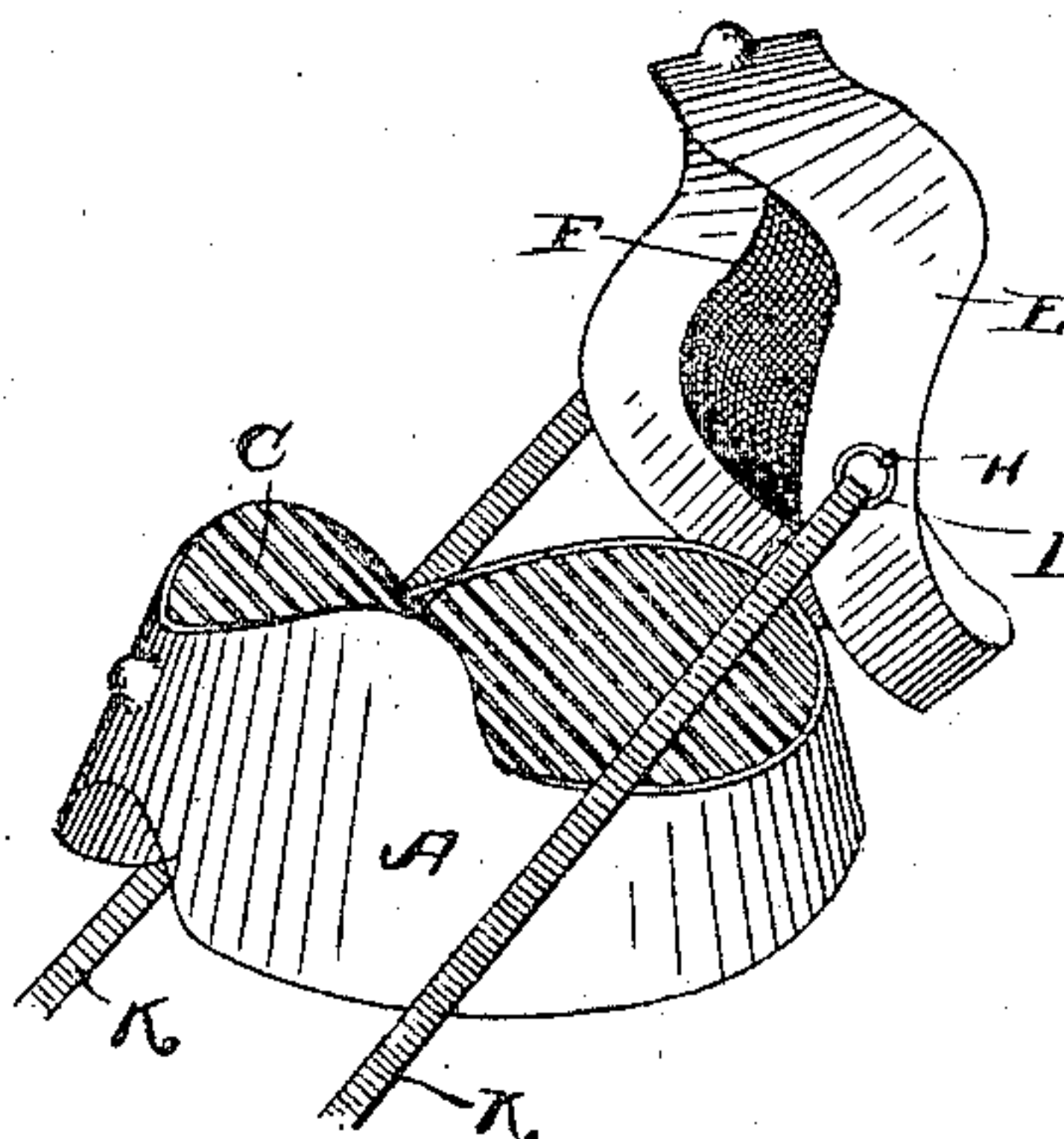
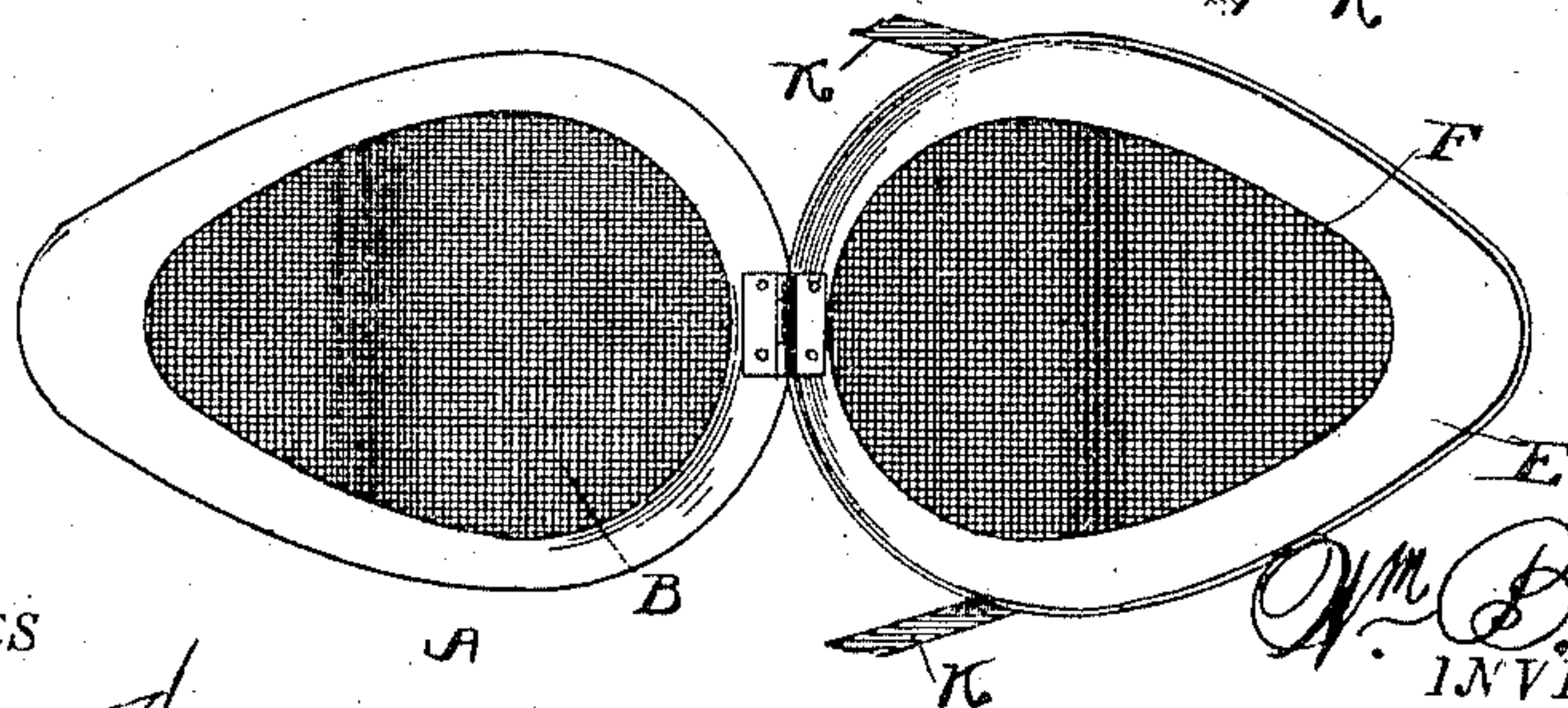


Fig. 2.



WITNESSES

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UNITED STATES PATENT OFFICE.

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INHALER.

SPECIFICATION forming part of Letters Patent No. 314,485, dated March 24, 1885.

Application filed October 14, 1884. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM B. SPENCER, a citizen of the United States, residing at Terre Haute, in the county of Vigo and State of Indiana, have invented a new and useful Improvement in Pulmonic Shields, of which the following is a specification, reference being had to the accompanying drawings.

My invention has relation to pulmonic shields designed to prevent catching of disease either in the open air or in dissecting-rooms, sick-rooms, morgues, or elsewhere; and it consists in the construction and novel arrangement of parts, as will be hereinafter fully described and claimed.

In the drawings, Figure 1 is a view in perspective of my improved pulmonic shield in place upon the wearer. Fig. 2 is a view in perspective showing the shield open; and Fig. 3 is a view of a modification wherein the wire-gauze screen is replaced by threads. Fig. 4 is a view in perspective of another modification wherein the hinged lid of the shield is provided with wire-gauze and the body of the shield is provided with threads.

Referring by letter to the accompanying drawings, A designates the body of the pulmonic shield, which may be made of any suitable material, and should be of a configuration that when in place will cover both the mouth and the nose of the wearer. This body A has a screen, B, which may be either of finely-meshed wire-gauze B or of parallel wire thread C, placed closely together by carrying it back and forth across the opening D in the body A, and passing the thread C through perforations E in close proximity to the edge of the body A around the opening D or perforated sheet metal or other perforated material.

To the lower enlarged side of the body A is hinged a rim, E, which conforms in outline to the outline of the body A, and fits the body A around the opening D. The rim E is pro-

vided with a wire-gauze screen, F, which is soldered to place in a position to conform to the curvature of the rim. This rim E is provided with ears H, in which rings I are secured, and in these rings I an elastic band, K, is secured, and is used to attach the shield to the wearer. Between the screens, or between the screen in the hinged rim and the threads in the body of the shield, I provide a piece of filtering material, which I saturate with some suitable disinfecting material when I am about to wear the shield. When worn in the open air, the shield will prevent irritating particles or substances from entering the lungs. I may reverse the positions of the wire threads and the wire-gauze and place the threads in the hinged rim; or I may omit the screen and use the threads in both the body and the rim; or I may omit the threads and use the wire-gauze in both rim and body; or I may use perforated sheet metal or other perforated material for screens instead of both wire-gauze and threads, as before mentioned, in both rim and body.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent of the United States, is—

A pulmonic shield comprising an approximately oval-shaped body extended forward at the upper end to receive the nose, and open-work connecting the sides of the body, in combination with a rim hinged to the body, and having its sides connected by open-work and fitting over the sides of the body, a catch for holding the rim to the body, and bands connecting with the rim, as and for the purpose set forth.

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

WILLIAM B. SPENCER.

Witnesses:

CHAS. C. BROWN,
A. W. SPEIM.