

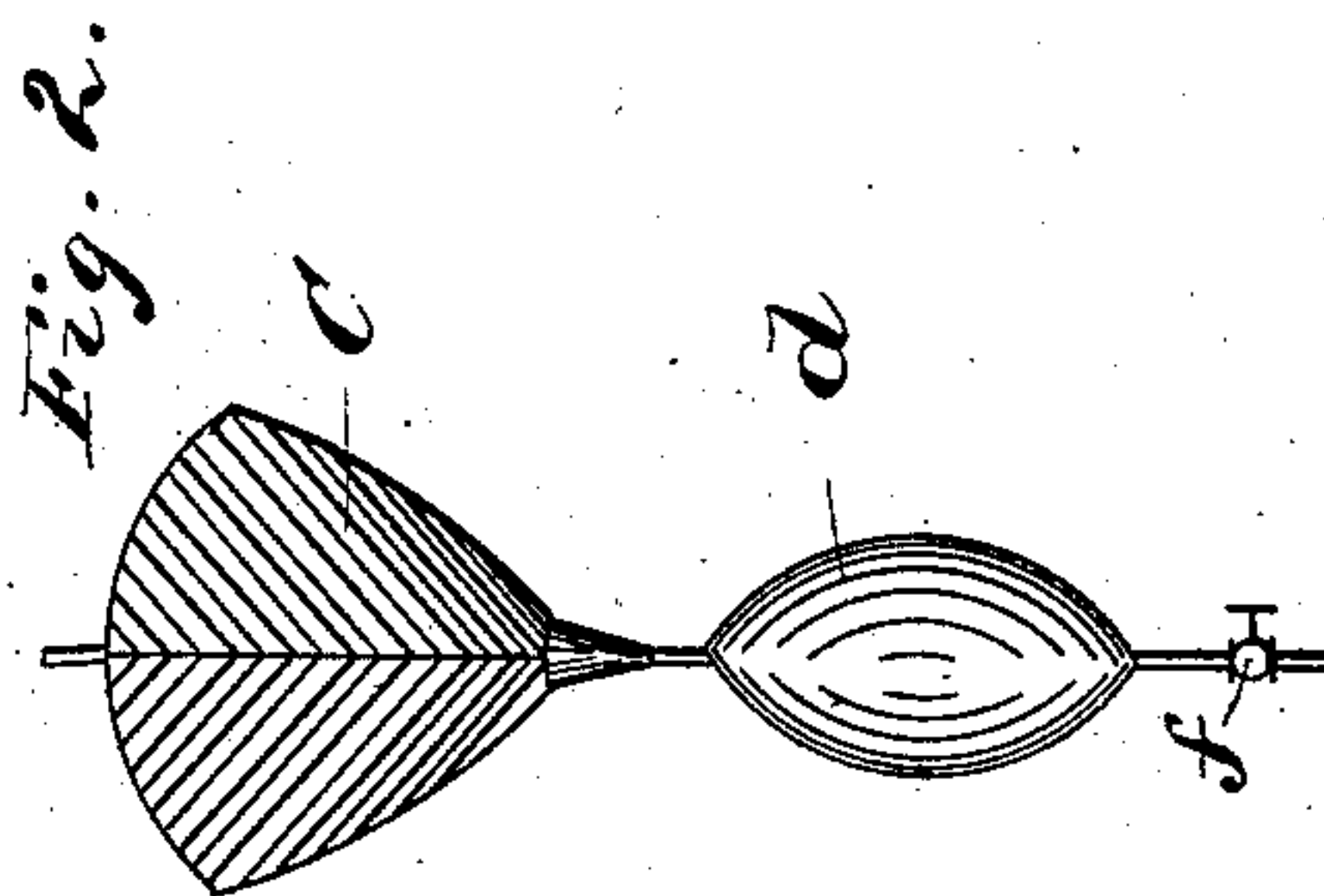
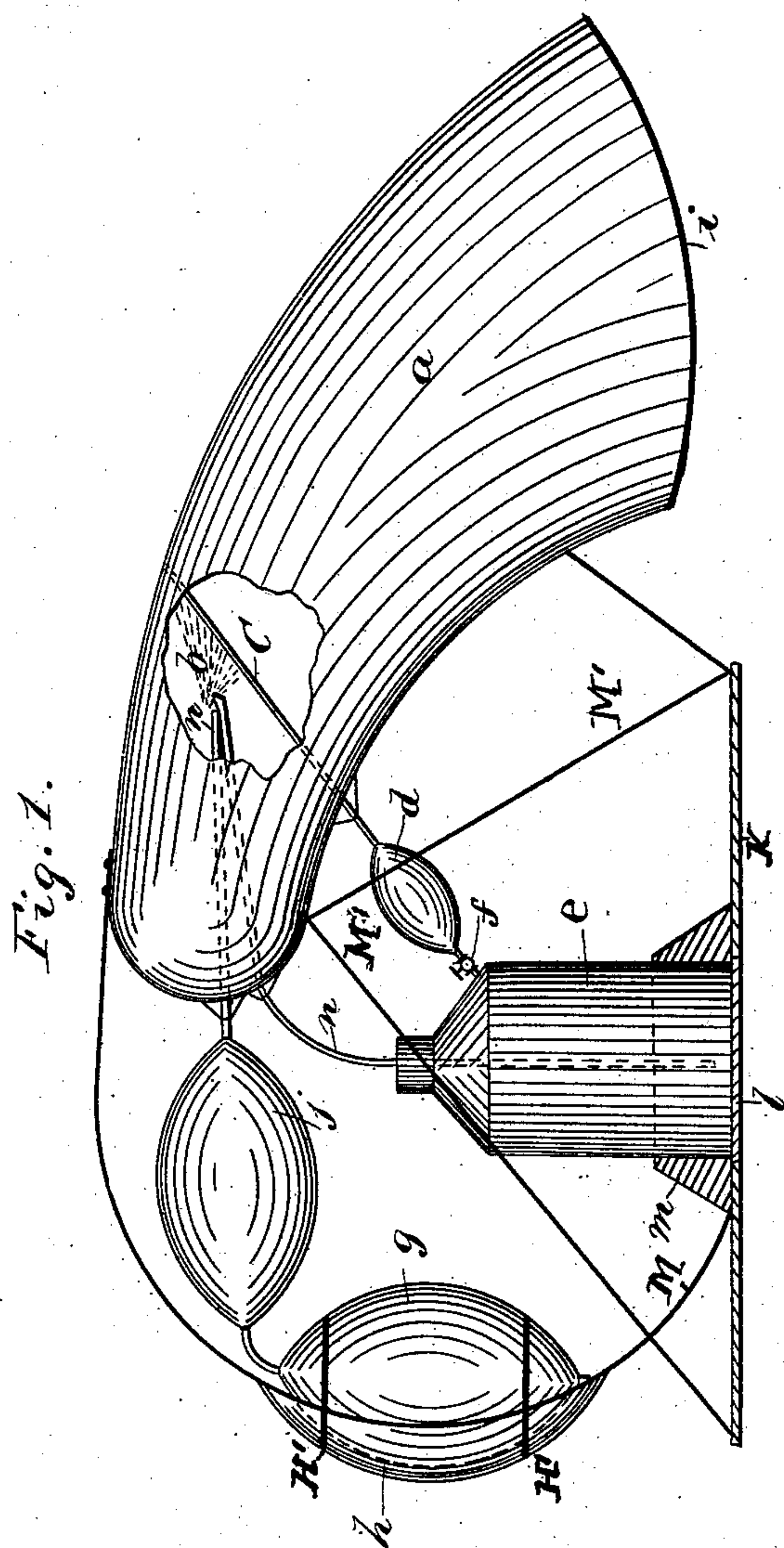
(No Model.)

H. COOK.

INHALER FOR ANÆSTHETICS.

No. 294,585.

Patented Mar. 4, 1884.



WITNESSES  
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# UNITED STATES PATENT OFFICE.

HENRY COOK, OF LEADVILLE, COLORADO.

## INHALER FOR ANÆSTHETICS.

SPECIFICATION forming part of Letters Patent No. 294,585, dated March 4, 1884.

Application filed September 1, 1883. (No model.)

*To all whom it may concern:*

Be it known that I, HENRY COOK, a citizen of the United States, residing at Leadville, in the county of Lake and State of Colorado, have  
5 invented a new and useful Inhaler and Respirator, of which the following is a specification.

The invention relates to a more convenient and reliable method of applying chloroform or other liquid anæsthetics that are inhaled by  
10 the patient in a vaporous state, substantially as herein described, and as illustrated by the accompanying drawings, in which—

Figure 1 represents the apparatus in full and the relations of the different parts to each  
15 other. Fig. 2 represents a square view of the spray-arrester in connection with the saving-reservoir bulb *d*.

In both figures similar letters indicate similar parts.

20 Referring to the letters, *e* is the bottle containing the liquid to be administered, which rests upon the bottom *k*, which also sustains the hood *a*, supported by several light wires, *M* and *M'*, as indicated. *i* is the mouth of the  
25 hood, that fits upon the face of the patient. *g* is a bulb for gathering air, and *j* an air-reservoir for maintaining a constant air-pressure, which reservoir is of auxiliary character, but is not essentially requisite. *h* is a handle to  
30 hold the apparatus, inclosing the outer portion of the bulb *g*. *b* indicates the spray issuing from the mouth of the tube *n*, which extends into and nearly to the bottom of containing-bottle. *C* is a spray-arrester. *d* is a saving-reservoir; *f*, a small stop-cock connecting  
35 the reservoir *d* with the bottle *e*. *l* is an apron or door in the bottom *k*, for removing the bottle. *m* is a support for holding the bottle in place.

40 The handle *h*, which is rigidly secured to wire *M*, may be made of wire-gauze or other ordinary material, and is provided with a boat-shaped recess or socket for reception of the bulb *g*, which is secured therein by means  
45 of bands *H'*, as shown.

The apparatus is operated as follows: The mouth of the hood *a* is placed over the nose and mouth of the patient, the operator hold-

ing the apparatus by the handle *h*, which enables him to work the bulb *g*, by which the  
50 liquid from the bottle *e* is thrown forward on the principle of an ordinary spraying-bottle or atomizer. The heavier portion of the spray is arrested by the plate *C*, by which the liquid is conducted by its channel into the table  
55 communicating with the saving-bulb *d*, from which the accumulated liquid is subsequently run into the bottle *e* by the stop-cock *f* being opened. The vapor arising from the spray fills the hood *a*, which is everywhere inclosed  
60 except the portion over the patient's face *i*. By this arrangement none of the material is wasted, nor does the vapor escape into the air, but is so confined as to be efficiently administered; but a more important advantage con-  
65 sists in so mixing atmospheric air with the anæsthetic as to continually preserve the proper proportions of the two, so that the administration is safe and effective, and free from the danger commonly attending the anæsthetizing  
70 of patients.

Having fully described my invention and in what manner the same is to be operated, what I claim, and desire to secure by Letters Patent, is—

1. In an inhaler and respirator, the combination of the hood *a*, spray-arrester *C*, bulb *d*, with stop-cock *f*, and bottle *e*, substantially  
75 as shown, and for the purpose described.

2. The apparatus specified for administering the fumes or vapor of an anæsthetic combined with atmospheric air, consisting of the  
80 bottle *e*, having tube *n*, bulb *g*, secured to handle by bands *H'*, bulb *j*, hood *a*, spray-arrester *C*, and bulb *d*, with stop-cock *f*, substantially  
85 as shown and described.

3. The combination of the bulbs *g* and *j*, spray-arrester *C*, bulb *d*, stop-cock *f*, and bottle *e*, having tube *n*, substantially as shown  
90 and described.

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

HENRY COOK.

Witnesses:

C. H. MURRAY,  
I. S. WEYAND.