

G. W. BANKER.
DEMIJOHN.

No. 174,104.

Patented Feb. 29, 1876.

Fig. 4.

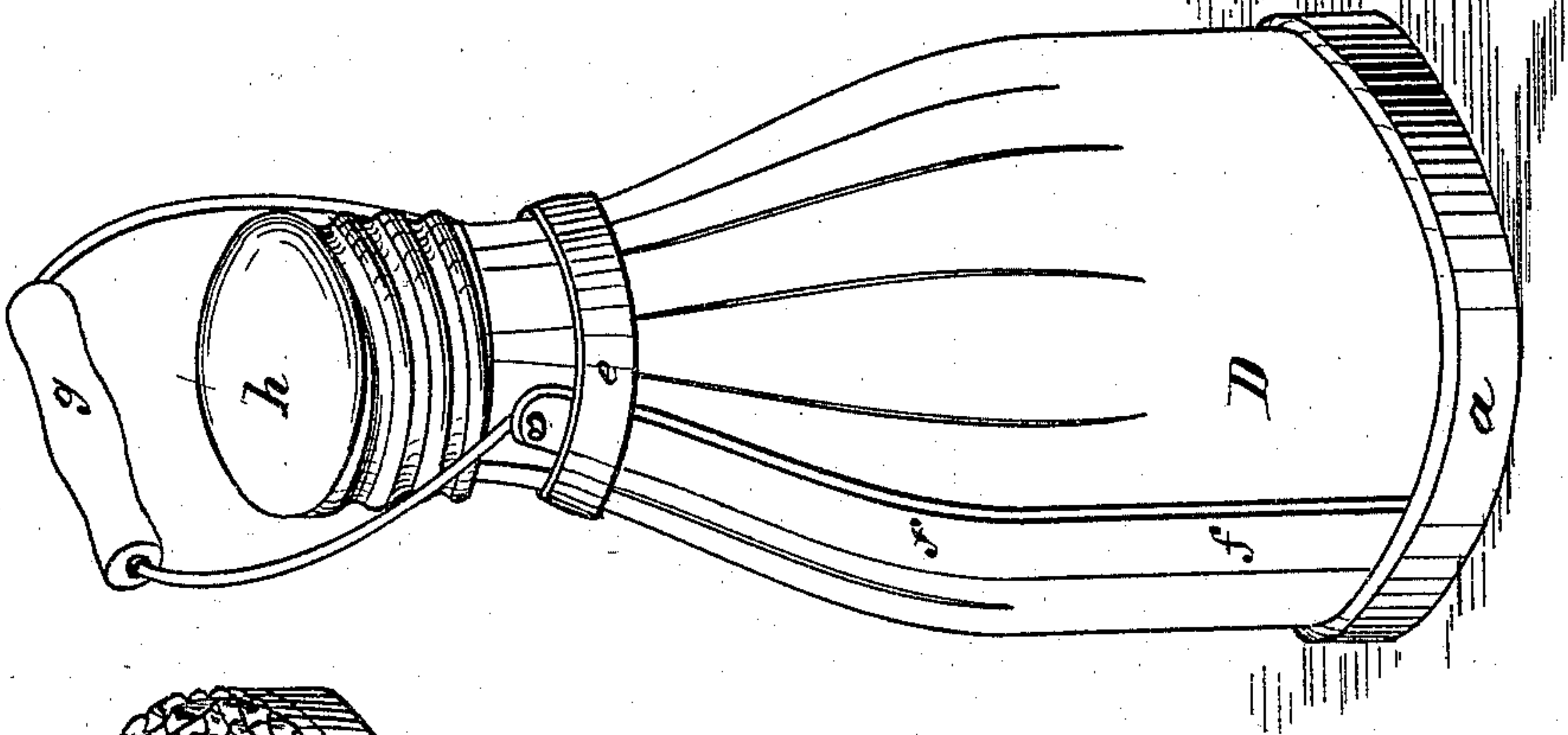


Fig. 3.

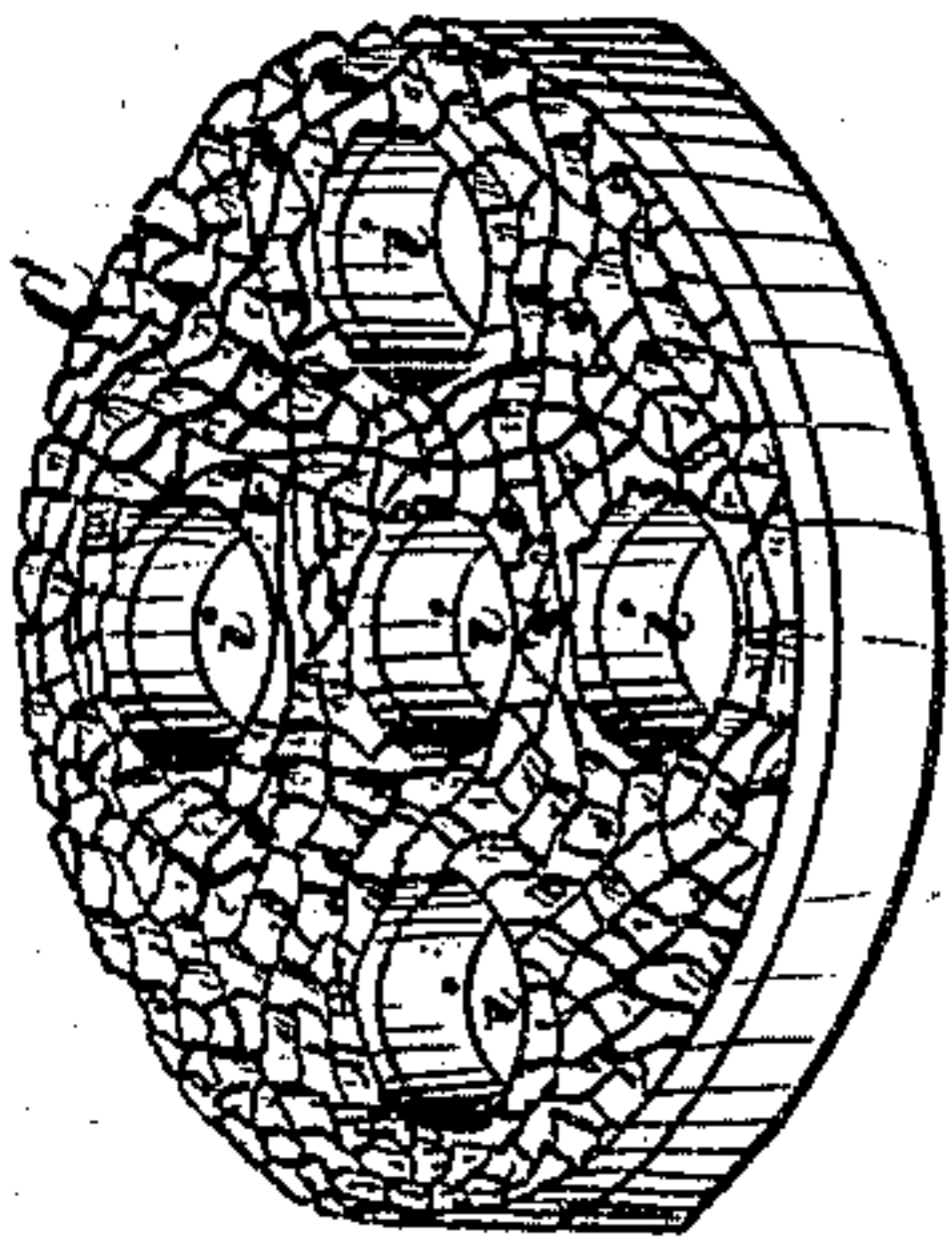


Fig. 2.

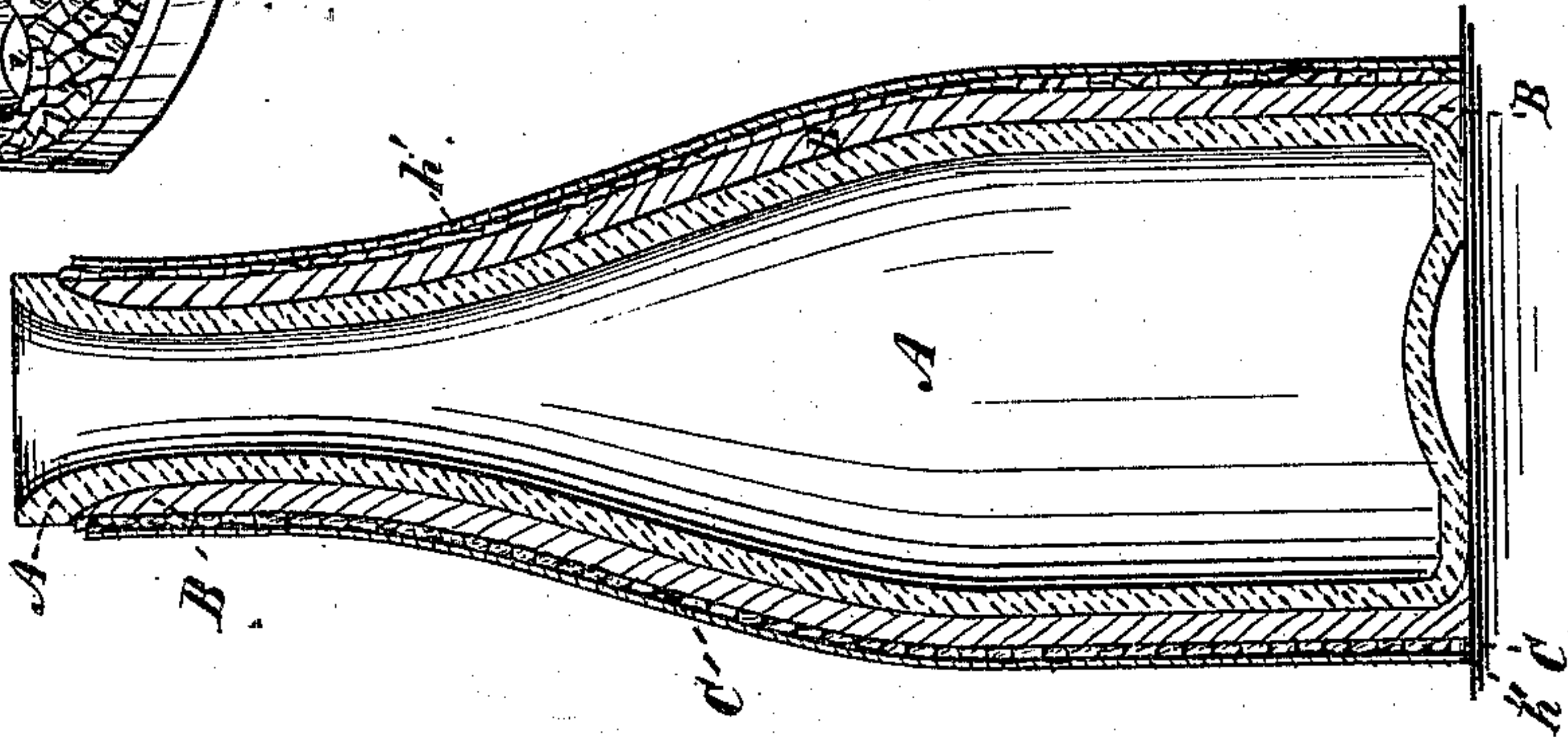
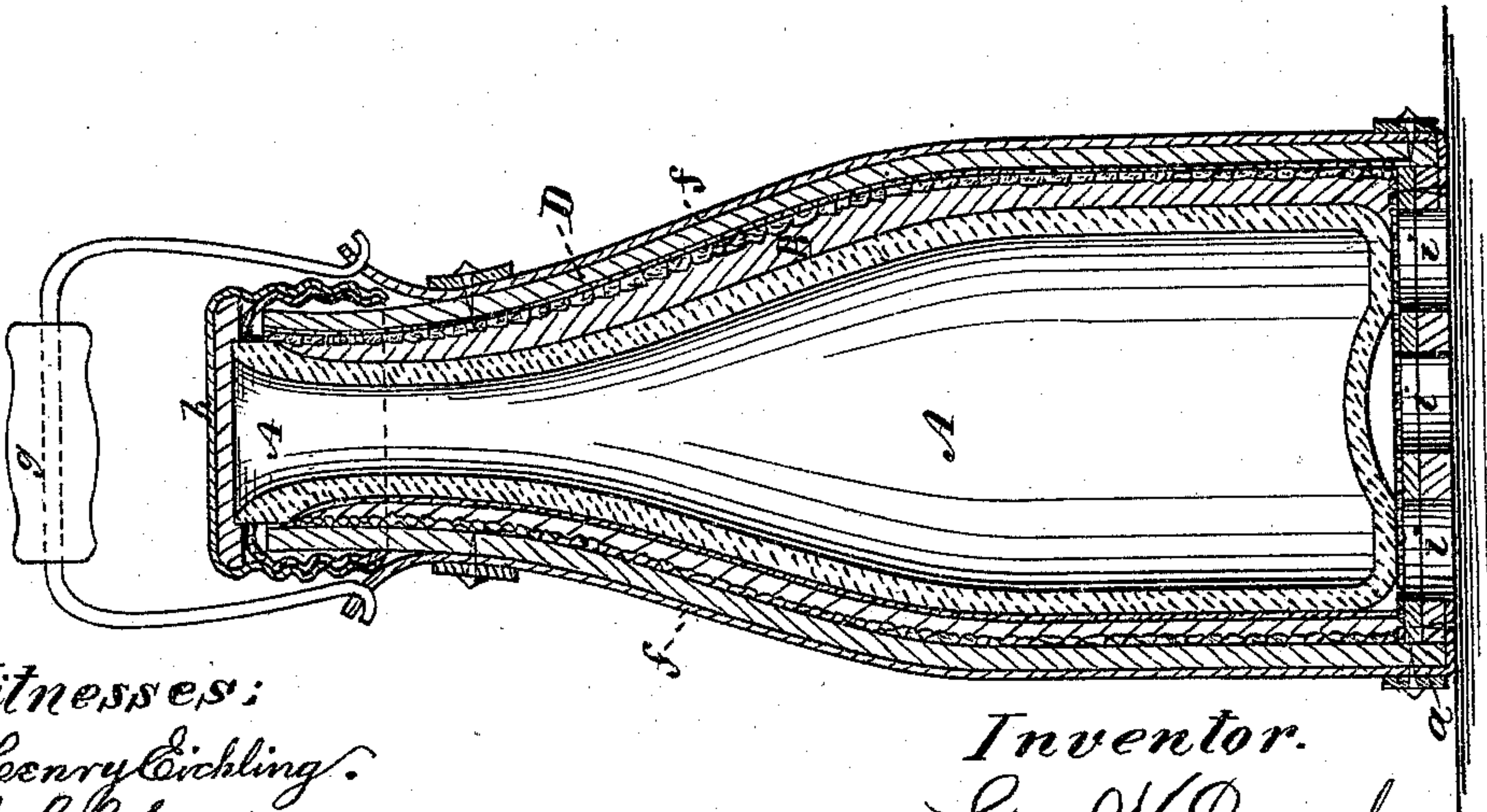


Fig. 1.



Witnesses:
Henry Eichling.
B. S. Clark.

Inventor.
Geo. W. Banker

UNITED STATES PATENT OFFICE.

GEORGE W. BANKER, OF NEW YORK, N. Y.

IMPROVEMENT IN DEMIJOHNS.

Specification forming part of Letters Patent No. 174,104, dated February 29, 1876; application filed November 10, 1875.

To all whom it may concern:

Be it known that I, GEORGE W. BANKER, of the city, county, and State of New York, have invented a new and useful Improvement in Demijohns, of which the following is a specification, reference being had to the accompanying drawings forming a part thereof.

Figure 1 is a vertical central section of a demijohn containing my improvement. Fig. 2 is a similar section of the bottle covered by an elastic packing or coating. Fig. 3 is a perspective view of the bottom of the exterior case of the demijohn, provided with apertures to admit light into the interior of the bottle, and Fig. 4 is a perspective view of the exterior of my completed demijohn.

My invention relates to a demijohn in which the bottle is protected by an elastic covering, and consists of a fluid-holding bottle, made of glass or other frangible material, coated with an adherent elastic substance, inclosed in a rigid exterior case, preferably similar in form to the bottle, in which the bottle fits snugly, so that the inner surface of the exterior case is substantially throughout in contact with the covering of the bottle, thereby tending to prevent any movement within the case of the bottle with its adherent covering, and consequent abrasion or displacement of the latter. A bottle thus inclosed is very securely protected against fracture, while the bottle and case together occupy but little more space than the bottle alone, and form a demijohn that is very convenient to transport and handle.

In carrying out my invention, I coat the bottle which constitutes the fluid-holding receptacle of my demijohn with a covering of a permanently-elastic material which will adhere thereto. The material which I find most convenient and economical is glue with which is mixed a small proportion of glycerine. After this coating is applied over the surface of the bottle, to the thickness of from one-sixteenth to one-eighth of an inch or more, depending upon the size of the bottle, while the mixture is still plastic, I prefer to apply a covering of ground cork. This is done by rolling the bottle, with the plastic material described adhering to it, in a quantity of the cork, so as to cause a considerable coating of

it to become embedded in and adhere to the glue.

In the drawings, A indicates the bottle, B, the elastic adherent coating, and C the covering of ground cork. If preferred, the ground cork may be mixed with the glue before the latter is applied to the bottle, so that the cork will be thoroughly incorporated with the glue. If the demijohn is intended to hold warm fluids, I apply a covering of paper or cloth to the glue and cork. This is done while the glue is still warm or adhesive, so that the paper or cloth will adhere to it and constitute a close permanent envelope. The envelope is represented in the drawings by the lines designated by the letter *h'*. D is the exterior case, made preferably of a sheet of wood bent into a cylindrical form, and necked to conform to the shape of the bottle by cutting out gores or triangular pieces and gathering in upon the bottle the remaining sections, as seen in Fig. 4. Upon the case thus formed I place hoops. In the drawing are represented two, one, *a*, at the bottom, and another, *e*, on the neck. Fig. 3 represents the bottom of the case D, made to fit into the lower end of the said case. It is preferably provided with apertures, *i*, through which light may be admitted to the interior of the glass bottle. *ff* are two metal ribs extending from above the hoop *e* to the bottom of the case, the lower ends being bent inward over upon the bottom, to which they are nailed or otherwise secured. The hoops are put on over these ribs, and may be secured to them. A greater number of ribs may be applied, so that the bottom D' shall require no other to retain it in place in the case than the lower ends of these ribs turned inward and secured to it. The upper ends are perforated for the attachment of a bail or handle, *g*. *h* indicates a screw-cap closing the neck of the case. Any other suitable device may be used for the purpose, or the bottle itself may be stoppered instead, or both the stopper and cap may be employed.

It will be observed that the bottle with its adherent covering fits snugly into the exterior case, whereby it is held securely in place, and prevented from shifting or moving within the case, while the said covering, being elastic,

furnishes a protection to the bottle against external violence from transportation or handling.

I have thus described what I regard as the best method of fabricating a demijohn, with a bottle protected by an adherent elastic covering, containing my improvements. But I do not intend to limit myself to the particular material named for the elastic adherent covering for the bottle, nor to the precise manner described of applying it. The essential requisites are that the material for the said covering shall be permanently elastic and adhere to the bottle, and, with reference to the exterior case, that it shall substantially conform in shape to the bottle and fit it snugly. I would recommend that the entire surface of the bottle be covered by the adherent elastic coating. But, if preferred, this coating may be applied in separate bands surrounding the bottle, or otherwise, so as to adequately protect it.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. A demijohn, consisting of a bottle provided with an elastic adherent covering, inclosed in an exterior case similar in shape to the bottle, as and for the purpose described.

2. A demijohn-bottle provided with a permanently-elastic adherent covering, as and for the purpose described.

3. A demijohn-bottle provided with a permanently-elastic adherent coating and a paper or cloth envelope adherent to the elastic coating, as and for the purpose described.

Witness my hand this 6th day of November, 1875.

GEO. W. BANKER.

Witnesses:

B. S. CLARK,

FRED. E. BOND.