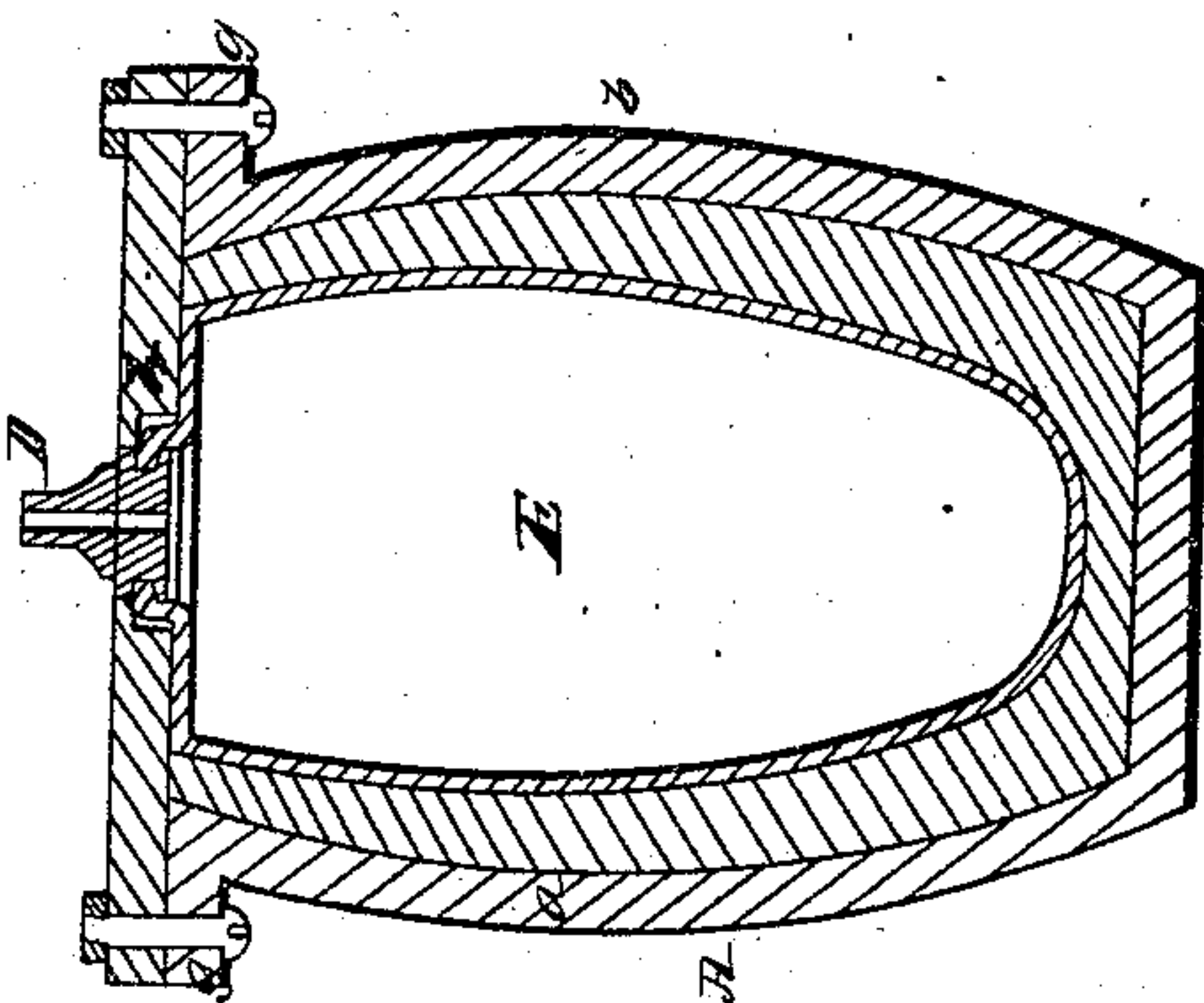


*J. L. Presbrey,*  
*Crucible Mold,*

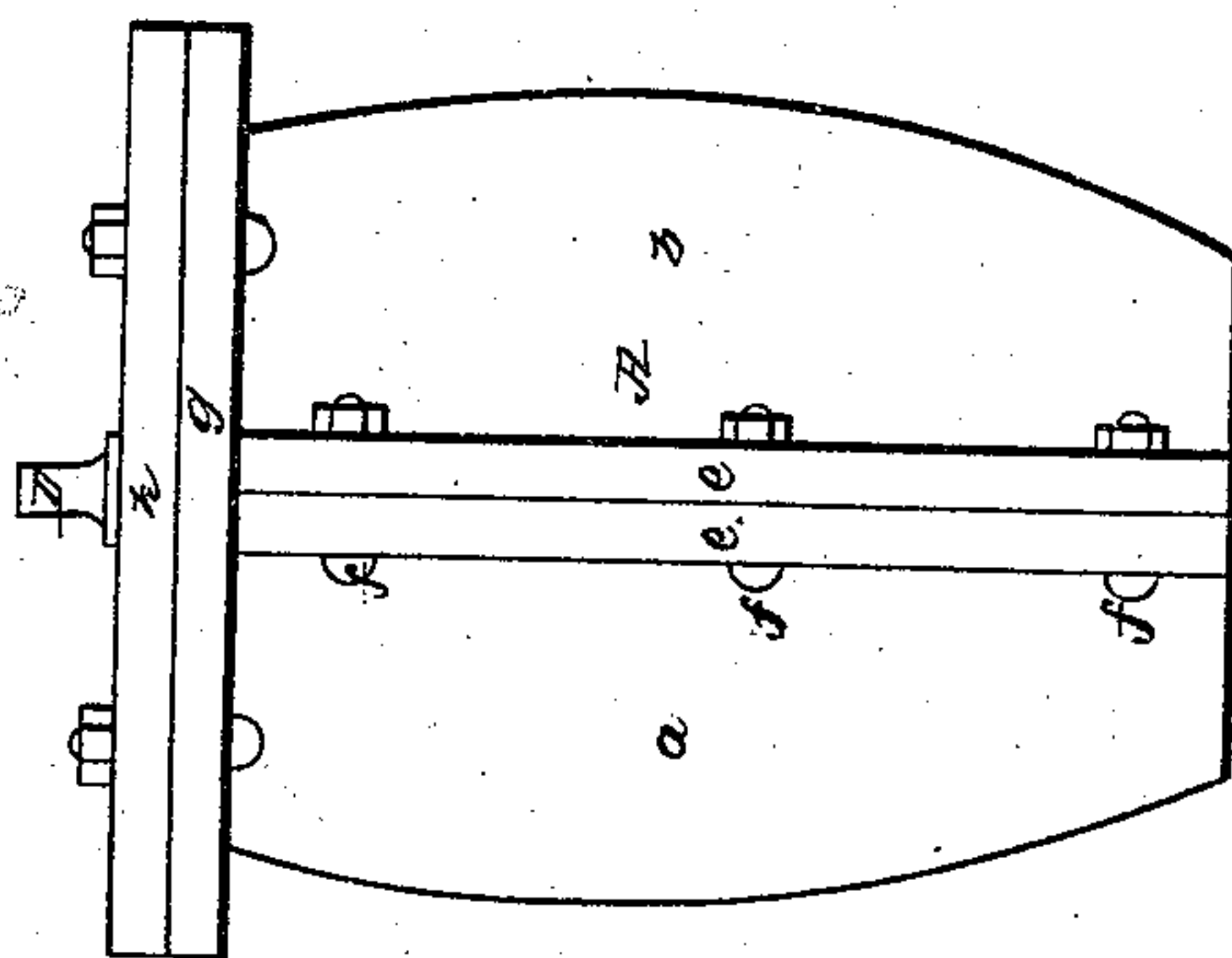
*Nº 54,204,*

*Patented Apr. 24, 1866.*

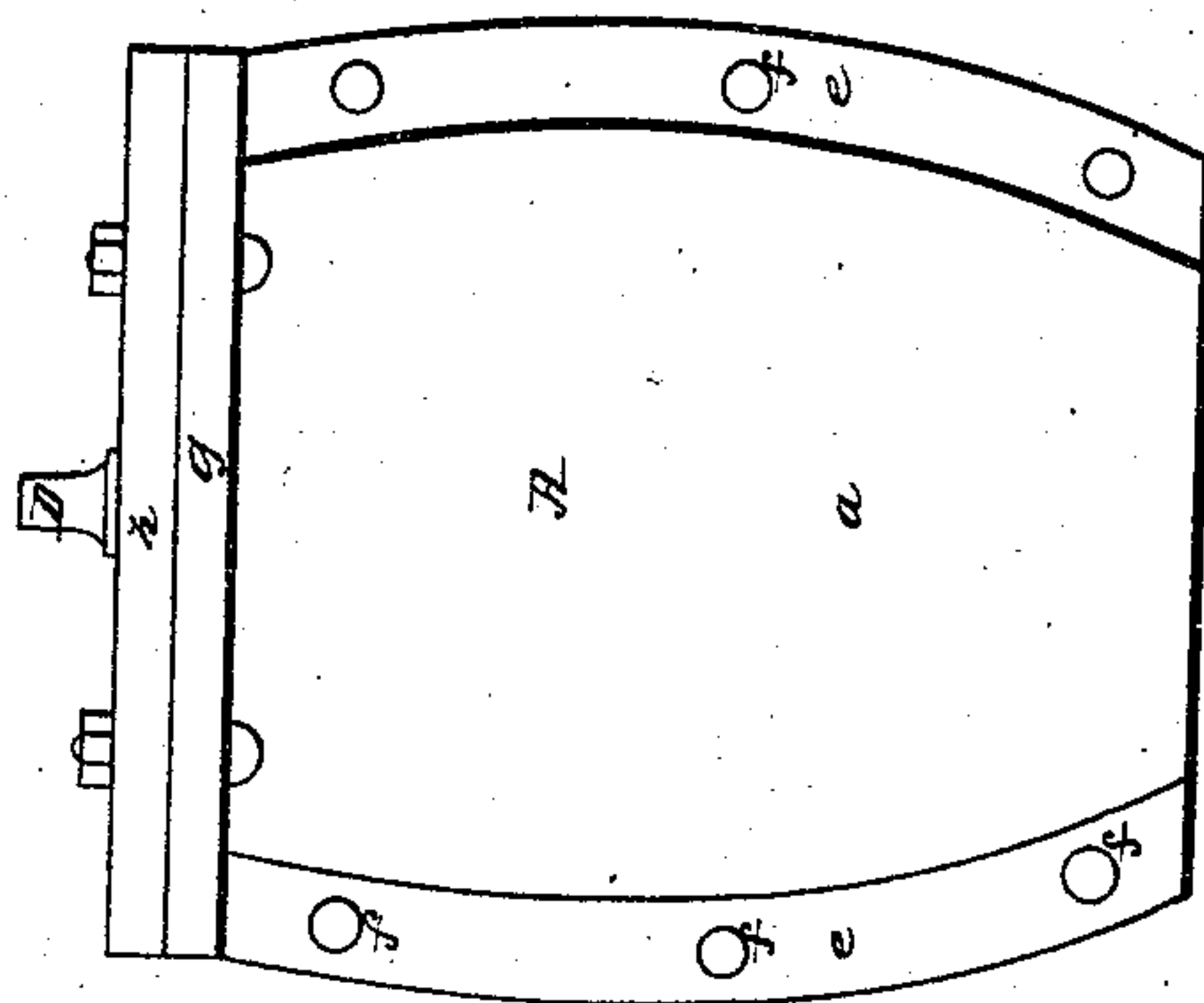
*Fig: 3.*



*Fig: 2.*



*Fig: 1.*



Witnesses:

*Samuel N. Piper*  
*Hurlis.*

Inventor:

*J. L. Presbrey*

*by his attorney.*

*R. H. Edgely.*

# UNITED STATES PATENT OFFICE.

JOSEPH L. PRESBREY, OF TAUNTON, MASSACHUSETTS.

## IMPROVED APPARATUS FOR MOLDING CRUCIBLES.

Specification forming part of Letters Patent No. 54,204, dated April 24, 1866.

*To all whom it may concern:*

Be it known that I, JOSEPH L. PRESBREY, of Taunton, in the county of Bristol and State of Massachusetts, have invented an Improved Apparatus for Molding Crucibles; and I do hereby declare the same to be fully described in the following specification, and represented in the accompanying drawings, of which—

Figure 1 is a front elevation, Fig. 2 an edge view, and Fig. 3 a vertical section, of it.

In the said drawings, A represents a mold as formed in two equal parts, *a b*, provided with flanges *e e* at their edges for connecting them together by means of screws *f f f*. They also have flanges *g g* at their tops for connecting them to a circular cap or plate, *h*. The interior surface of this mold is to be the counterpart of the external form of a crucible, which as usually made is narrower at its mouth than it is at or about at its middle.

From a pipe, D, fixed in the center of the cap *h*, an elastic air or water tight bag, E, depends and hangs within the matrix of the mold.

After the crucible in a state approximating

to the shape of the mold, and in a condition for being pressed, may have been introduced into the mold, and the cover and two halves of the mold may have been fastened together, air, water, or steam is to be introduced and forced into the elastic bag or bulb, so as to dilate or expand it sufficiently to cause it to crowd the plastic material or composition of which the crucible may consist hard up against the inner surface of the mold, after which, on suffering the air, water, or steam to escape from the bag, such bag will collapse to its normal condition, and on separating the sides and cap of the mold we shall find the crucible pressed into the desired shape.

I claim—

The combination and arrangement of the elastic bag and the crucible-mold, substantially as described.

JOSEPH L. PRESBREY.

Witnesses:

R. H. EDDY,

F. P. HALE, Jr.