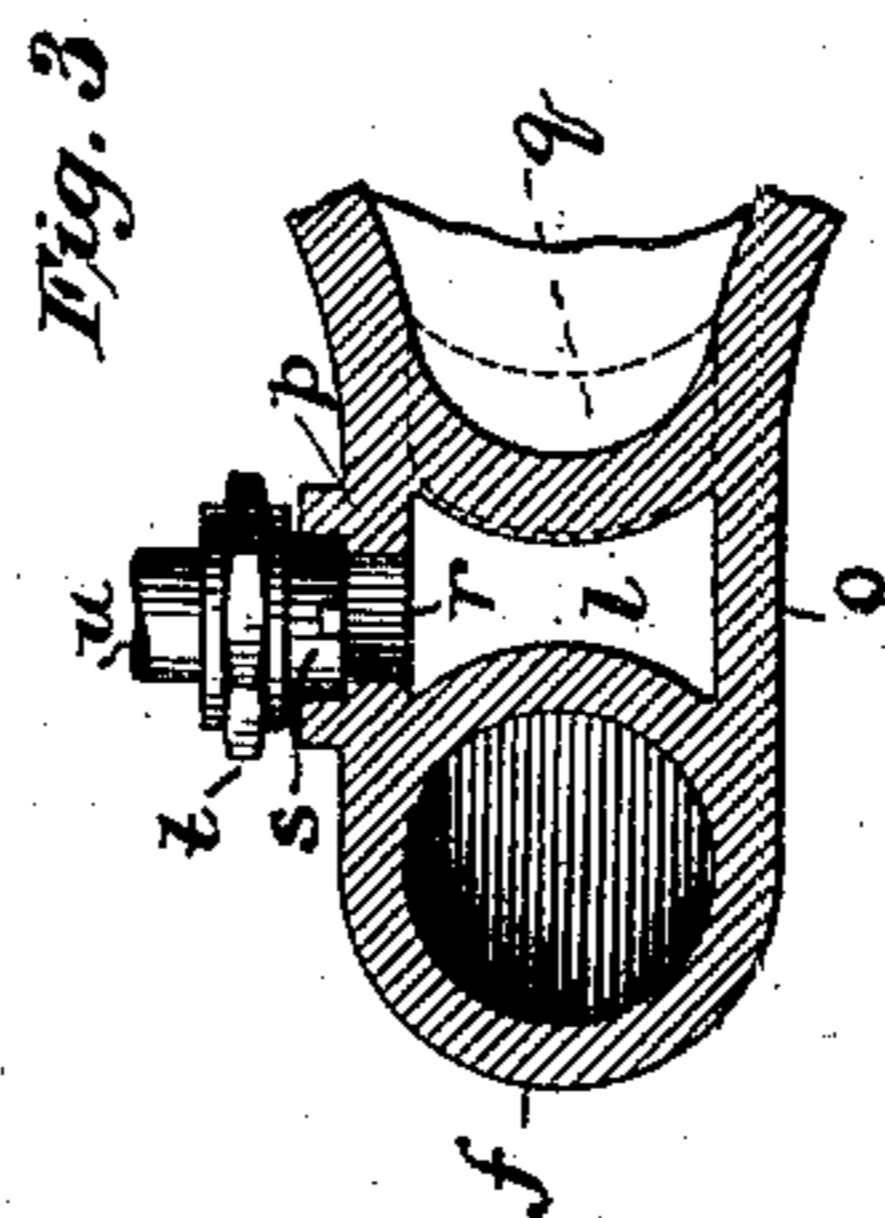
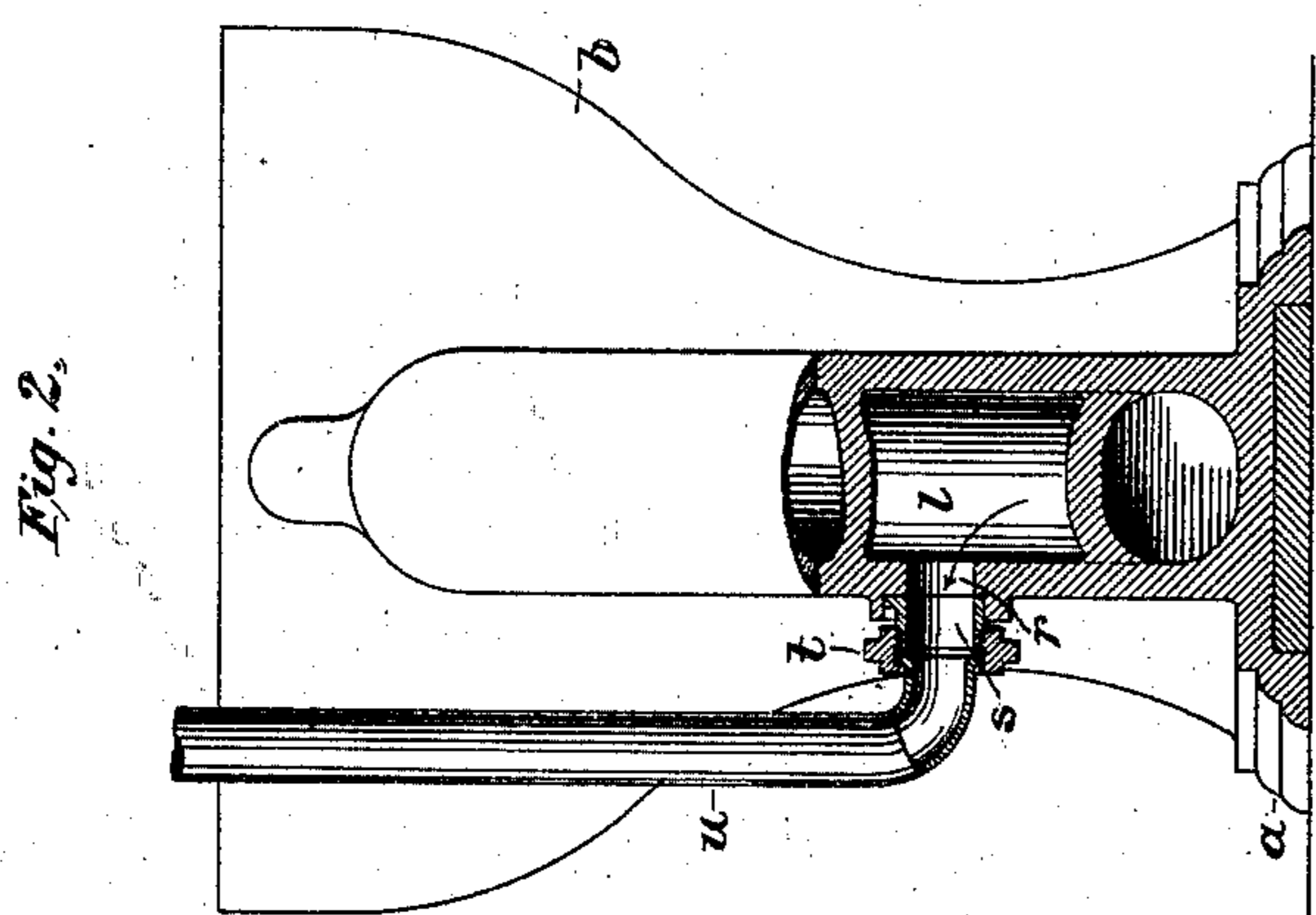
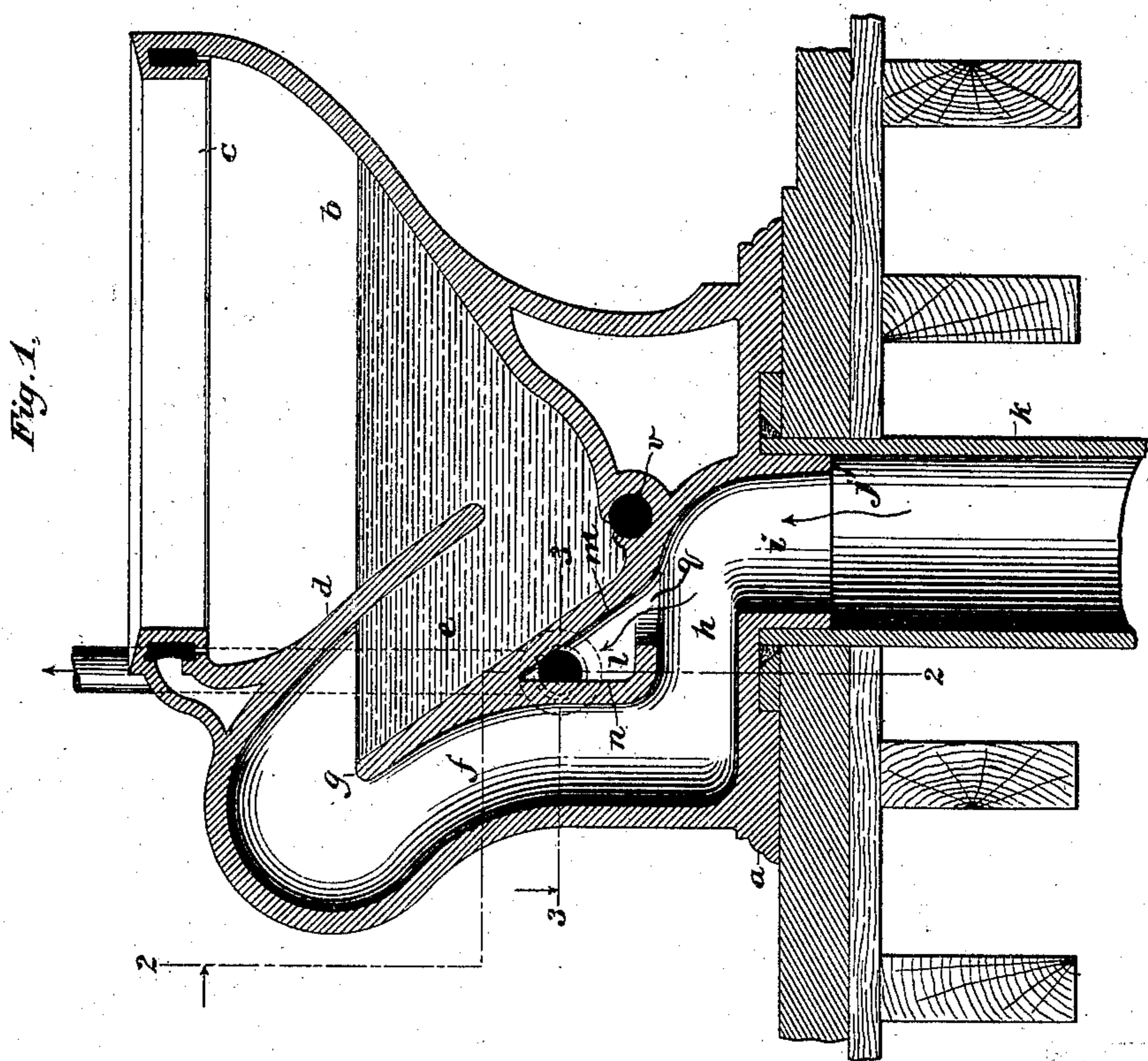


(No Model.)

W. BUNTING, Jr.
WATER CLOSET.

No. 462,030.

Patented Oct. 27, 1891.



Witnesses

Geo. W. Breck.
Henry W. Lloyd.

Inventor

Inventor
William Bunting Jr.
By his Attorney Jacob Felbel

UNITED STATES PATENT OFFICE.

WILLIAM BUNTING, JR., OF BROOKLYN, ASSIGNOR TO THE MEYER-SNIFFEN COMPANY, LIMITED, OF NEW YORK, N. Y.

WATER-CLOSET.

SPECIFICATION forming part of Letters Patent No. 462,030, dated October 27, 1891.

Application filed March 8, 1891. Serial No. 383,954. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM BUNTING, JR., a citizen of the United States, and a resident of Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Water-Closets, of which the following is a specification.

My invention relates to siphon water-closets, and has for its main object to provide for the ventilation of the outlet thereof.

To this end my invention consists in the features of construction hereinafter more fully described, and particularly pointed out in the appended claim.

In the accompanying drawings, Figure 1 is a central vertical section of a water closet embodying my invention. Fig. 2 is a sectional elevation taken at the line 2 of Fig. 1, and Fig. 3 is a horizontal section taken at the line 3 of Fig. 1.

In the several views the same part will be found designated by the same letter of reference.

a designates the base of the closet; *b*, the bowl; *c*, the flushing-rim, and *d* the dip or partition of the bowl, forming therewith the intake or upward shorter leg *e* of the siphon, the outgo or downward longer leg of which is designated by the letter *f*. All of these parts are formed integral or of a single piece of earthenware. The longer leg of the siphon, starting from the overflow-point *g*, extends first downward in a substantially-vertical direction, then laterally or horizontally, as at *h*, and then vertically again, as at *i*, where it terminates in a neck *j*, for connection with the waste or soil pipe *k*. A chamber *l* is formed between the bowl and the longer leg of the siphon, the wall *m* of the bowl, the wall of side *n* of the siphon-leg *f*, and two walls *o* and *p* forming said chamber. A vertical opening at *q* is made in the horizontal wall of the siphon-leg *f* to effect a communication between said chamber and said leg and waste-pipe. A horizontal lateral opening at *r* is made in the wall *p* of the chamber *l* to provide an outlet from said chamber. At said opening is fitted a metallic thimble or pipe-section *s*, to which by a coupling *t* is connected the lower end of a ventilating-pipe *u*, which may extend to a flue or to the roof of

the premises in which the closet may be located. It will be seen that by thus forming or constructing the longer leg of the siphon with reference to the bowl of the closet I am enabled to provide a chamber between said leg and said bowl (utilizing the exterior surfaces of the walls of said devices in the formation of said chamber) whereby the foul air or gases within the waste-pipe and the longer leg of the siphon may be led into and carried off by a connected ventilating pipe or tube without destroying the action of the siphon, the arrows at Figs. 1 and 2 showing that the air or gas passes from the waste-pipe and the longer leg of the siphon through the vertical opening *q* in the upper horizontal wall of the siphon-leg *f*, thence through the chamber *l*, from which it escapes through the horizontal lateral opening at *r* in the wall *p* into the discharging or ventilating tube *u*. The action of the water-closet as such is substantially the same as other siphon water-closets, there being added in this case, however, a device *v* for affording an ascending jet to the shorter leg of the siphon to assist the siphonic action of the closet; but this device forms no part of my present invention.

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

In a siphon water-closet, the bowl *b*, the siphon *e f*, made integral therewith, the longer leg *f* of the siphon having a horizontal bend *h*, a chamber *l*, arranged above said bend and between the side of the bowl and the upper vertical portion of the leg *f* of the siphon, entirely out of the bore of the siphon, and formed by the wall *m* of the bowl, the wall *n* of the siphon-leg *f*, and two side walls *o* and *p*, a vertical opening *q*, leading up from the said horizontal bend into said chamber, and a lateral opening *r* in the wall *p* of the chamber leading out therefrom and adapted for the attachment of a ventilating pipe or tube, as set forth.

Signed at New York city, in the county of New York and State of New York, this 2d day of March, A. D. 1891.

WILLIAM BUNTING, JR.

Witnesses:

MARCUS F. KETCHUM,
AMASA T. DAY.