

No. 652,053.

Patented June 19, 1900.

V. C. SWANSON.

NOZZLE,

(Application filed Jan. 27, 1900.)

(No Model.)

Fig 1

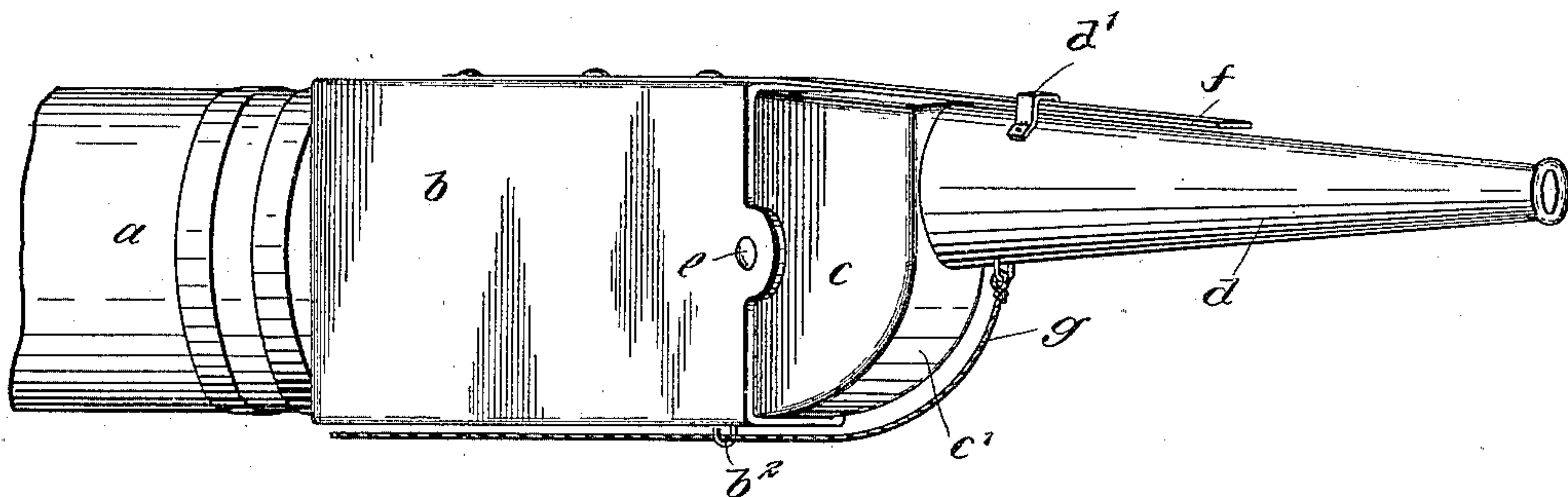


Fig 2

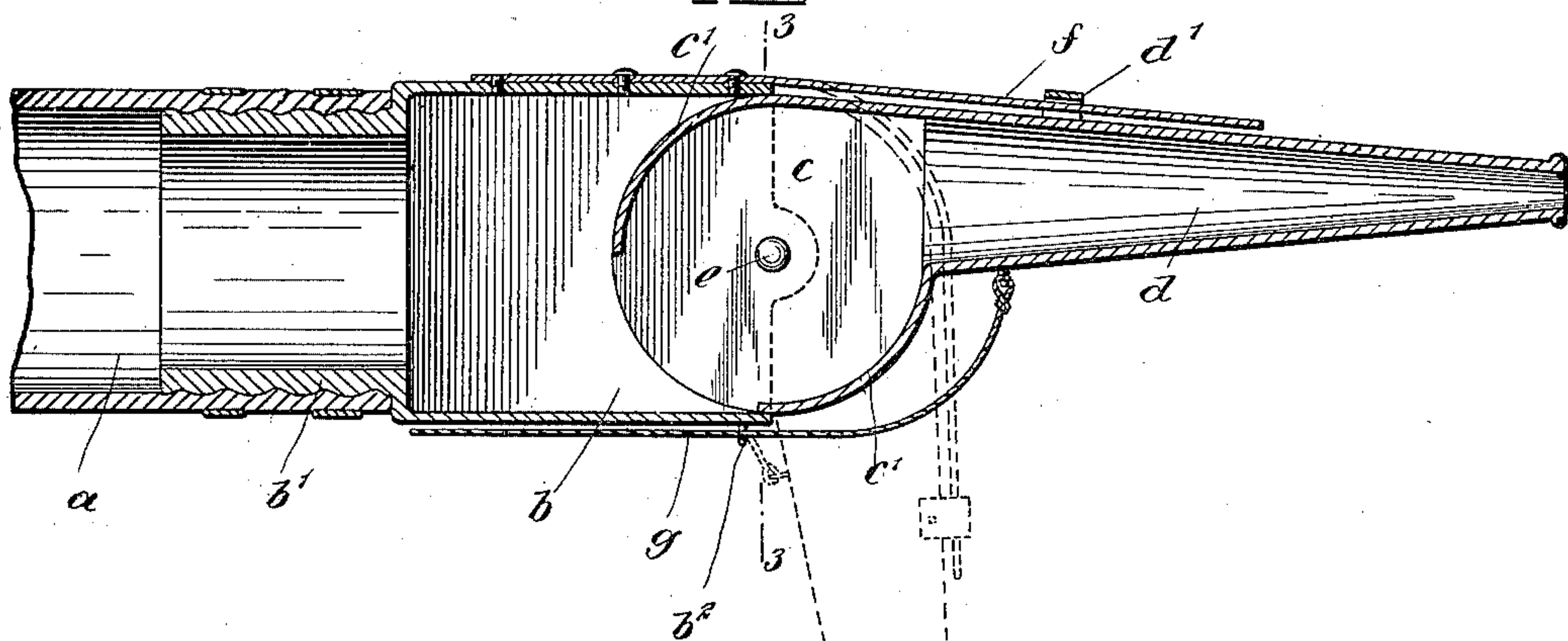
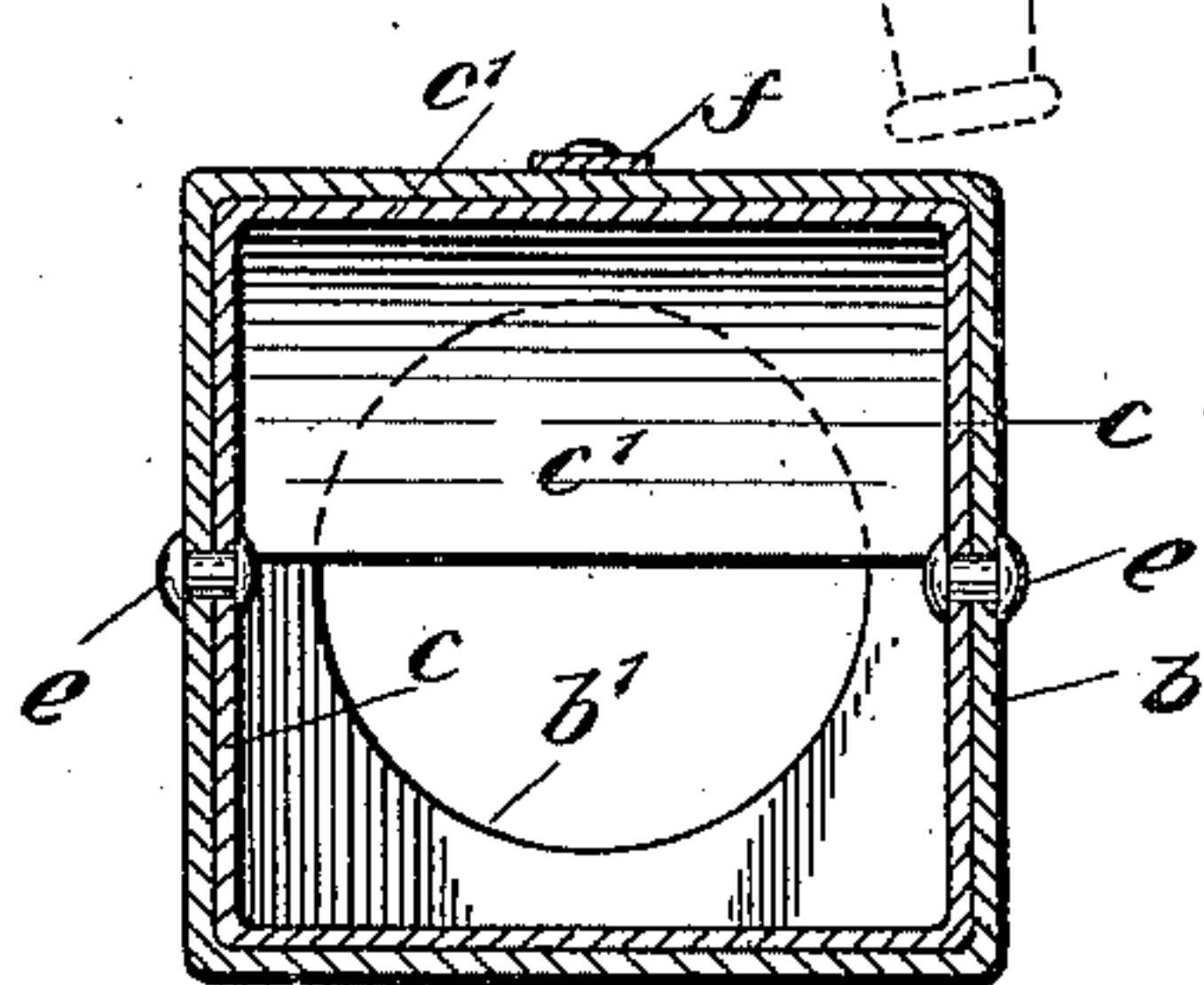


Fig 3



WITNESSES:

J. A. Brophy  
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# UNITED STATES PATENT OFFICE

VICTOR C. SWANSON, OF SALEM, SOUTH DAKOTA.

## NOZZLE.

SPECIFICATION forming part of Letters Patent No. 652,053, dated June 19, 1900.

Application filed January 27, 1900. Serial No. 2,998. (No model.)

*To all whom it may concern:*

Be it known that I, VICTOR C. SWANSON, a citizen of the United States, and a resident of Salem, in the county of McCook and State of South Dakota, have invented a new and Improved Nozzle, of which the following is a full, clear, and exact description.

The purpose of this invention is to provide a hose-nozzle which may be readily turned to different angular positions with respect to the head of the hose.

The invention is particularly serviceable in cleaning boilers and like structures where small hand-holes are provided for reaching the interior thereof and which are not sufficiently large to enable both arms of a workman to be introduced into the boiler.

This specification is the disclosure of one form of the invention, while the claims define the actual scope thereof.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

Figure 1 is a perspective view of the invention. Fig. 2 is a longitudinal section thereof, and Fig. 3 is a cross-section on the line 3 3 of Fig. 2.

The head or end of the hose *a* is fastened over a thimble *b'* on the casing or body *b* of the nozzle. This casing is approximately rectangular in form and has an open outer end, in which is fitted the butt *c* of the nozzle proper, *d*. The butt *c* of the nozzle proper has plane side walls and curved end walls *c'*, the curved portions of such end walls each extending for approximately one-quarter of a circle and being situated opposite, as best shown in Fig. 2. This forms a casing with an open end communicating directly with the head or casing of the body *b*. The side walls of the butt *c* of the nozzle proper, *d*, are pivotally mounted on the side walls of the casing or body *b* by means of rivets *e* or the like. By these means the nozzle proper is mounted to swing on the casing or body from the position shown by full lines in Fig. 2 to that shown by dotted lines in the same view or to any position intermediate the positions

shown. Whatever may be the position of the nozzle proper, *d*, the butt of the nozzle is still in communication with the body or casing *b*, and thus the flow of water from one to the other is not interrupted. This enables the nozzle to be directed at any angle with respect to the line of the hose.

For holding the nozzle proper, *d*, in the position shown in Fig. 2, a spring-arm *f* is provided, which is attached to the casing or body *b* and is fitted loosely in a guide *d'*, attached to the nozzle proper, and for drawing the nozzle proper to an inclined position against the tendency of the spring *f* I provide a cord *g*, which is attached to the nozzle near the butt and is arranged to slide in a fair leader *b<sup>2</sup>*, attached to the casing or body *b*. This arrangement of the cord *g* and spring *f* is especially advantageous when it is desired to use the device in connection with a boiler or like article where the nozzle must be inserted through a small opening not sufficiently large to permit the arm of the operator to be inserted therein.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. The combination of a casing or body of approximately-rectangular form, having an open end, and a nozzle having a butt with plane side walls and curved end walls, the butt being mounted in the open end of the casing or body and having its side walls pivoted to the side walls thereof, the interior of the butt of the nozzle being in communication with the casing or body.

2. The combination of a nozzle, means on which the nozzle is mounted to swing, a spring attached to the body and extending longitudinally of the nozzle and engaged therewith to hold the nozzle in one position, and means attached to the nozzle for moving it against the tendency of the spring.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

VICTOR C. SWANSON.

Witnesses:

FRANK E. SWANSON,  
FRED OLSON.