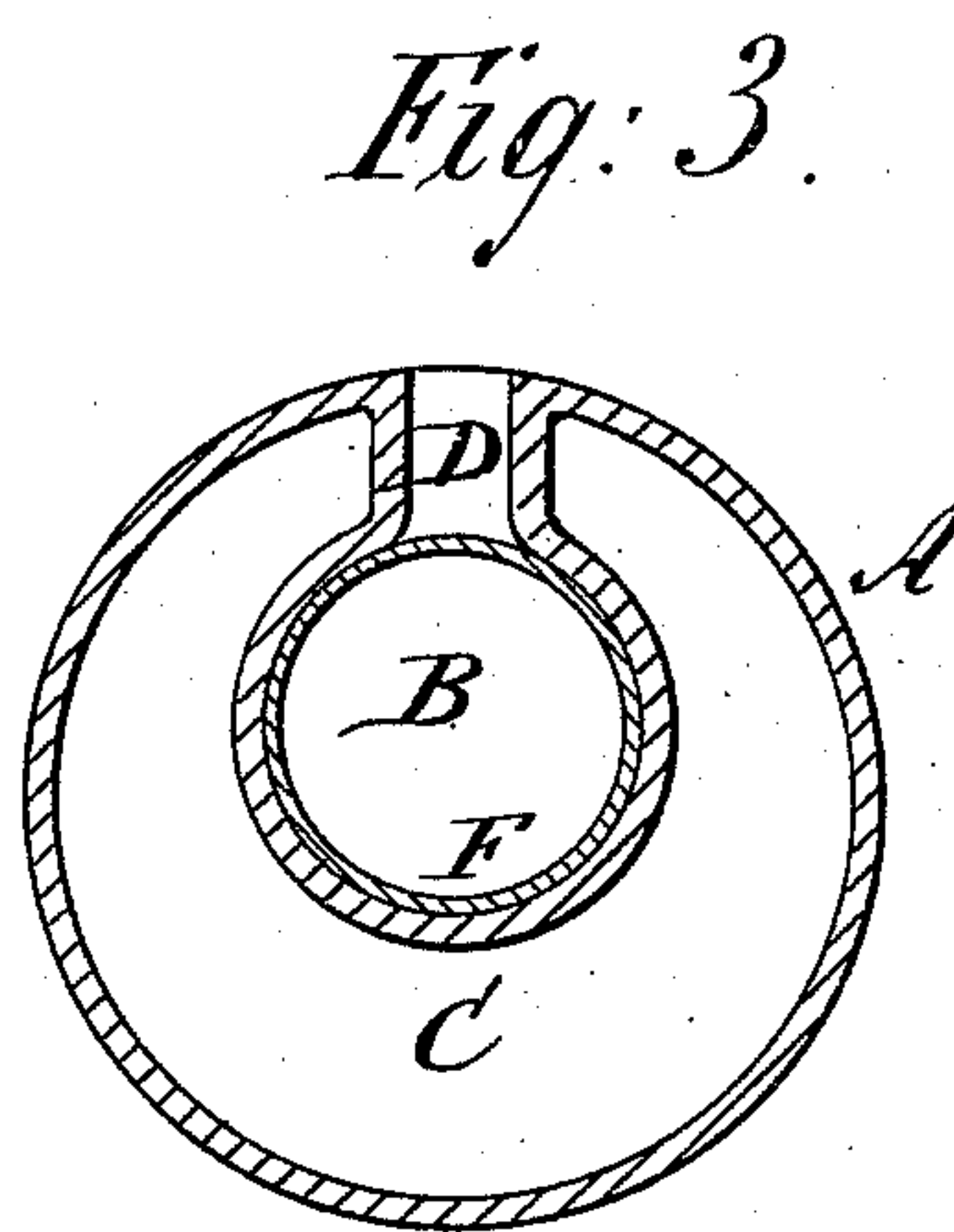
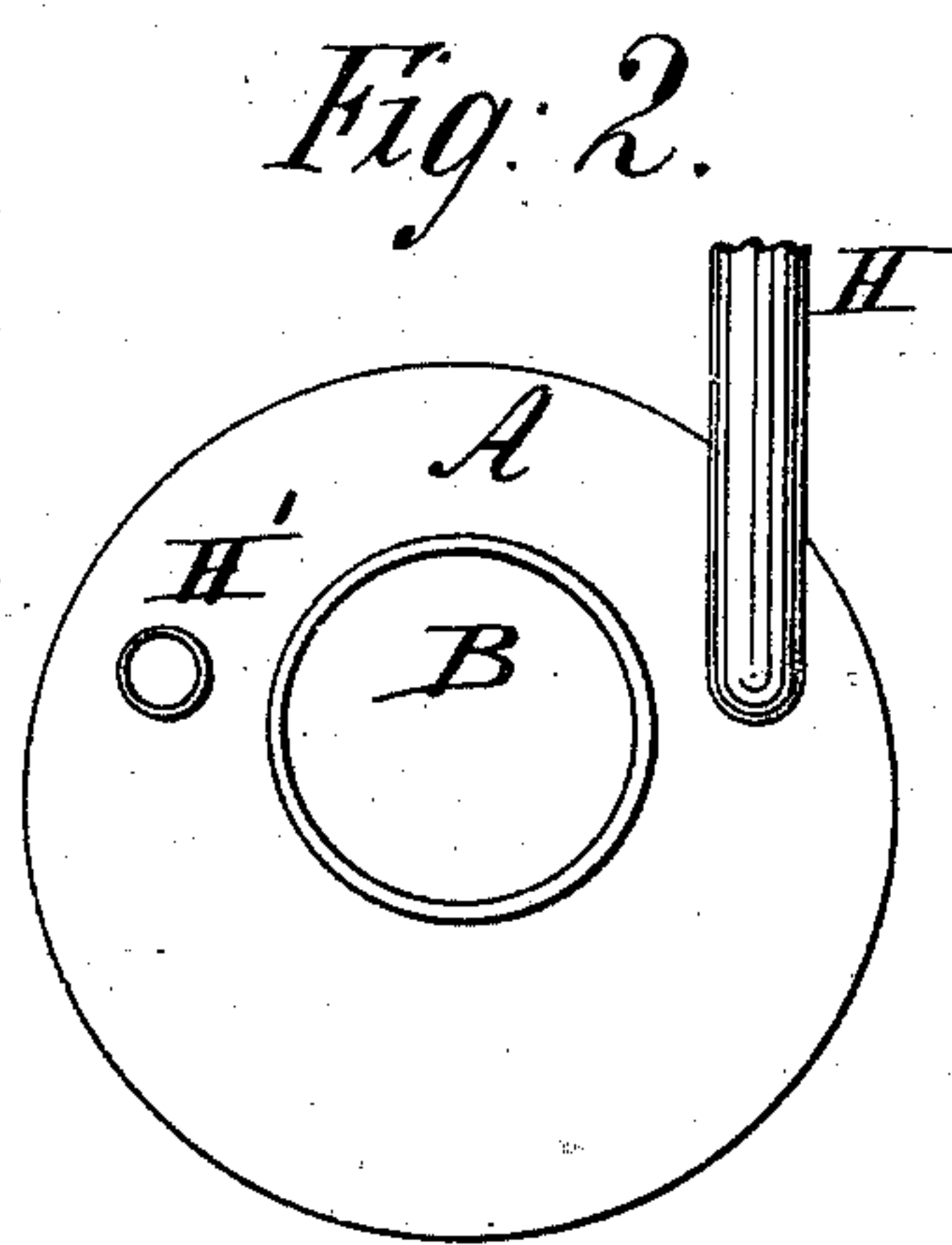
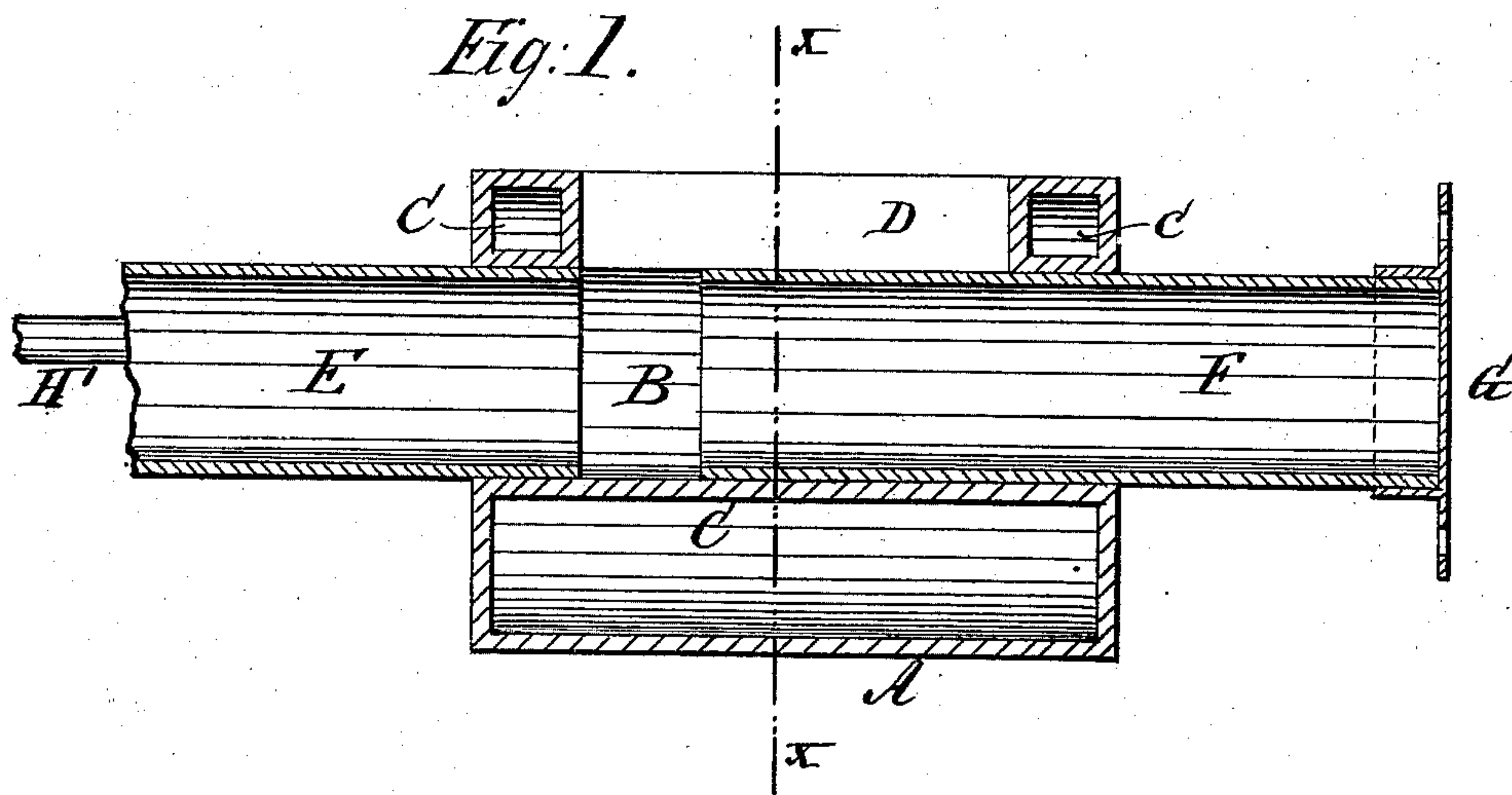


(Model.)

H. SCHLIMME.
Tuyere.

No. 232,550.

Patented Sept. 21, 1880.



WITNESSES:

A. Schehl,
C. Sedgwick.

INVENTOR:

H. Schlimme.

BY

Mum & Co.

ATTORNEYS.

UNITED STATES PATENT OFFICE.

HENRY SCHLIMME, OF WICONISCO, PENNSYLVANIA.

TUYERE.

SPECIFICATION forming part of Letters Patent No. 232,550, dated September 21, 1880.

Application filed May 13, 1880. (Model.)

To all whom it may concern:

Be it known that I, HENRY SCHLIMME, of Wiconisco, Dauphin county, Pennsylvania, have invented a new and Improved Tuyere, of which the following is a specification.

The object of this invention is to provide a simple and more durable tuyere for blacksmiths' forges and the like.

The invention consists in certain improvements, which will first be described in connection with the drawings, and then pointed out in the claims.

Figure 1 is a longitudinal sectional elevation of the tuyere. Fig. 2 is an end elevation of the same, and Fig. 3 is a transverse section on the line *x x*, Fig. 1.

Similar letters of reference indicate corresponding parts.

In the drawings, A represents the cylinder, having a central bore, B, surrounded by water-chambers C, and provided, also, with a longitudinal opening or slot, D, that extends from the bore B to the circumference of the cylinder, said slot or opening D being designed for the passage of air-blast from the tuyere to the forge or furnace in which it is to be placed. E is a blast-pipe firmly secured in one end of said cylinder-bore B, and serves to conduct the air-blast from the blower into the tuyere, said pipe E being entered so as to reach only to one end of the opening or slot D. F is another pipe fitted into the opposite end of the cylinder-bore B, and operating as a valve to regulate the blast passing through the tuyere. By pushing said sliding pipe F up against the inner end of the pipe E the blast is entirely cut off from the tuyere, while, on withdrawing

said pipe F and increasing the opening, the blast may be regulated at will.

To remove ashes from the tuyere, the sliding pipe F is pushed into contact with the pipe E and cap G removed from the former, when the blast will force the ashes, &c., through the outer end of the pipe F.

H H' are the tubes or pipes, respectively, for the supply and escape of the water to and from the water-chambers C, said pipes H H' being arranged so that a constant circulation of water may be maintained within said water-chambers C to keep the tuyere cool and prevent its burning out and the formation of cinders therein.

This tuyere is applicable to smiths' forges and all furnaces requiring an upright blast, and the sliding valve-pipe F may be operated by hand or by mechanical appliances.

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

1. A tuyere constructed substantially as herein shown and described, consisting of the bored cylinder A, provided with water-chambers C, longitudinal blast-opening D, blast-pipe E, sliding valve-pipe F, having a cap, G, and water-pipes H H', as set forth.

2. The combination, with the cylinder A, having a peripheral blast-opening, D, of the blast-pipe E and sliding capped valve-pipe F, substantially as herein shown and described.

HENRY SCHLIMME.

Witnesses:

E. DOUDEN,
JOHN C. KNILEY.