

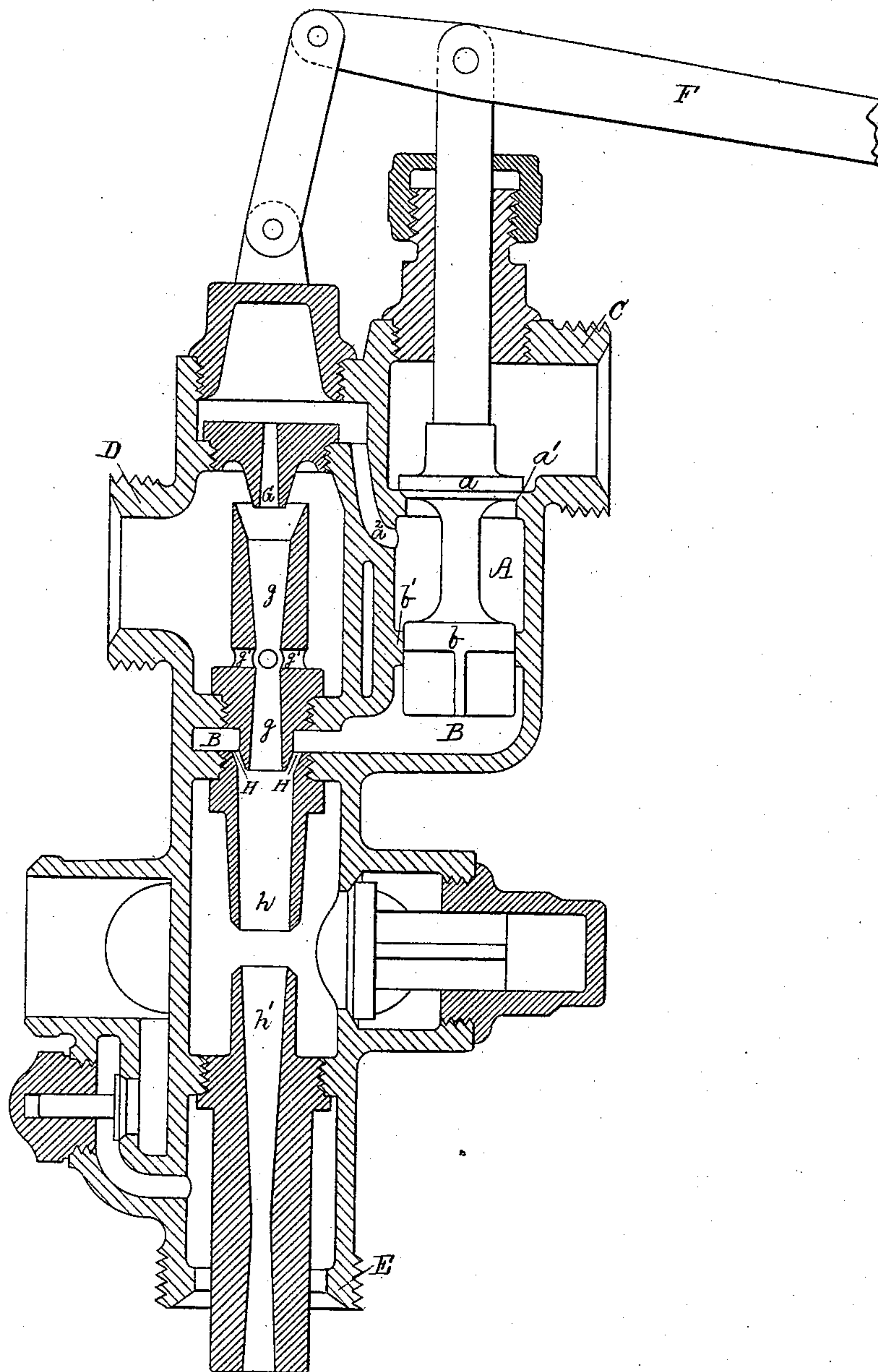
(Model.)

W. R. PARK.

INJECTOR.

No. 370,405.

Patented Sept. 27, 1887.



Witnesses.

Lauritz N. Møller.
John R. Snow.

Inventor

William R. Park,
by his attorney,
J. E. Maynard

UNITED STATES PATENT OFFICE.

WILLIAM R. PARK, OF TAUNTON, MASSACHUSETTS.

INJECTOR.

SPECIFICATION forming part of Letters Patent No. 370,405, dated September 27, 1887.

Application filed September 13, 1886. Serial No. 213,396. (Model.)

To all whom it may concern:

Be it known that I, WILLIAM R. PARK, of Taunton, in the county of Bristol and State of Massachusetts, have invented an Improved
5 Injector, of which the following is a specification, reference being had to the accompanying drawings, forming a part hereof, and which illustrates by a central longitudinal section the best form of my improved apparatus.
10 My apparatus in its general construction is the same as that shown in my application Serial No. 191,568, and consists of two steam-nozzles, G and H, and their combining and delivery tubes *g h h'*, with their appli-
15 ances, substantially as shown in that application, the tube *g* being open to the water-supply at *g'*. The steam-nozzles are supplied with steam from the chambers A and B; and my
20 present invention consists in the combination, with the apparatus described in my application above referred to, of the two steam-chambers A and B and a double valve, *a b*, so that steam enters the chamber A first and flows from that chamber to the first nozzle, G,
25 and then by the further motion of the double valve the steam is admitted to the chamber B and flows from that chamber to the second nozzle, H. This is a practical improvement upon my injector for certain uses.
30 In the drawing the steam-supply pipe is connected to the apparatus at C, the water-

supply pipe at D, and the feed-pipe leading to the boiler at E. When the valve *a* is on its seat *a'*, the steam is shut off from the apparatus; but when the valve *a* is moved away 35 from its seat by the lever F steam flows past it into chamber A, and from chamber A through passage *a''* to the nozzle G; but, as will be clear from the drawing, the steam in chamber A is shut off from chamber B until 40 the plunger-valve gets clear of the cylinder *b'*, when the steam will flow freely past valve *b* into chamber B, and thence through the second nozzle, H, which I have shown as an annular nozzle in free communication with 45 chamber B.

The operation will be clear to all skilled in the art without further description.

What I claim as my invention is—

In combination, the steam-supply C, the 50 chambers A and B, the double valve *a b*, the passage *a''*, leading from chamber A, the water-supply D, the nozzle G, the tube *g*, open to the water-supply not only at the mouth, but also at *g'*, and the nozzle H and the tubes *h h'*, all 55 arranged and operating substantially as described.

WM. R. PARK.

Witnesses:

C. B. MAYNADIER,
J. E. MAYNADIER.