

J. B. Thompson,
Steam-Boiler Water-Feeder,
No 25,290, *Patented Aug. 30, 1859.*

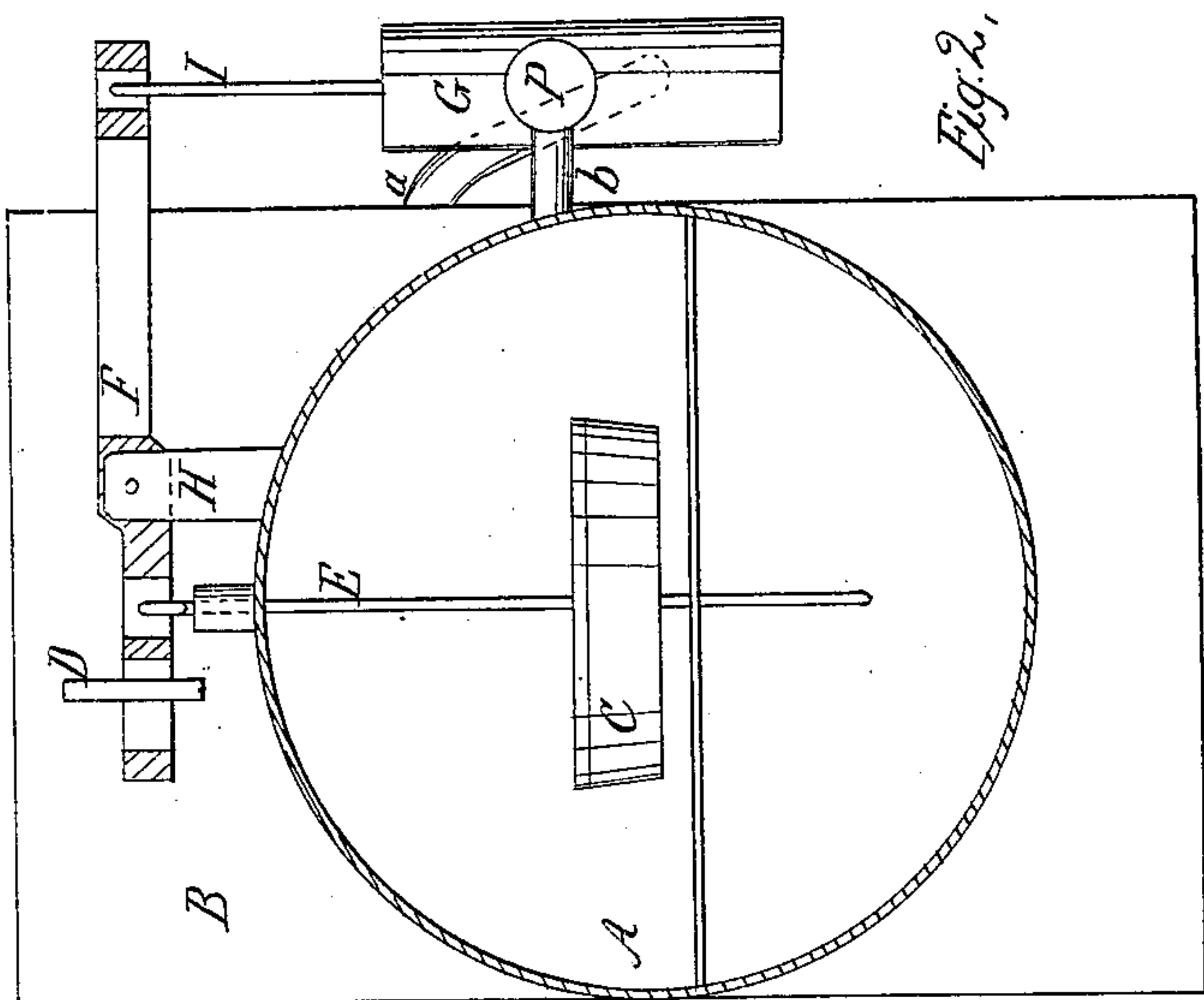


Fig. 1,

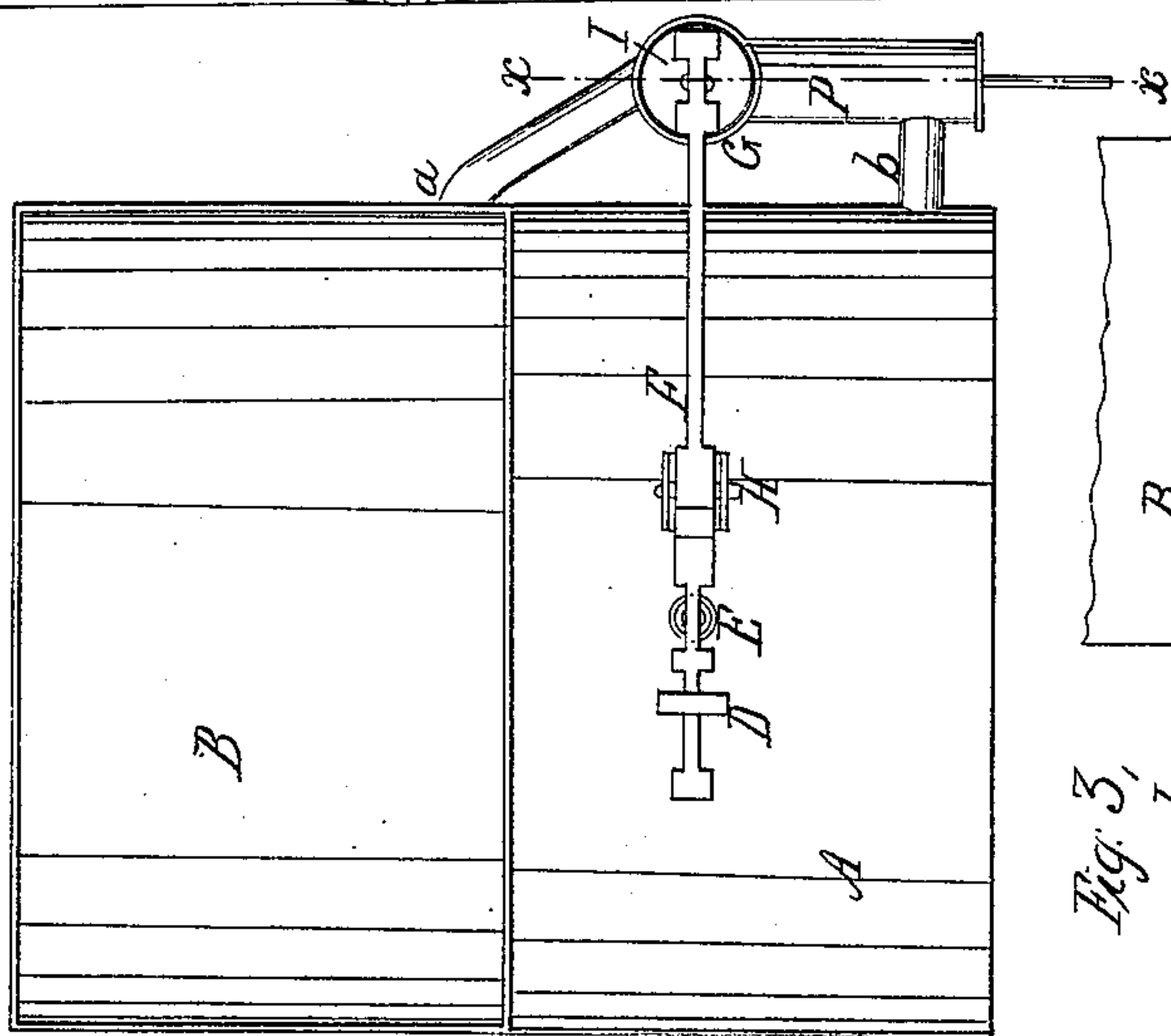
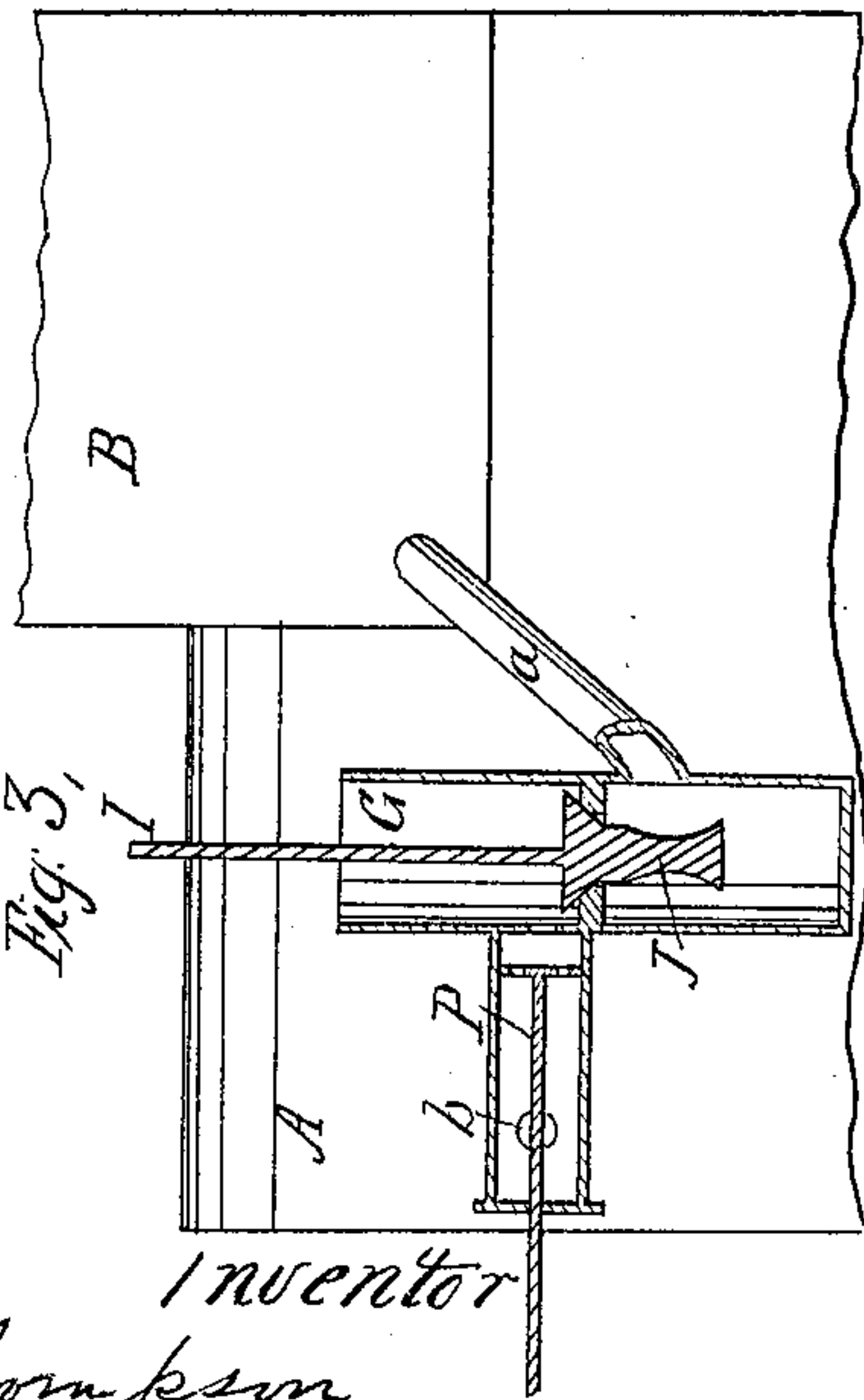


Fig. 3,



Witnesses,
W. Nevins Dorsey
Josh. W. Lacey

Inventor
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per Geo. Patten atty

UNITED STATES PATENT OFFICE.

JOSEPH B. THOMPSON, OF WARRENTON, GEORGIA.

FEED-WATER APPARATUS FOR STEAM-BOILERS.

Specification of Letters Patent No. 25,290, dated August 30, 1859.

To all whom it may concern:

Be it known that I, JOSEPH B. THOMPSON, of Warrenton, in the county of Warren and State of Georgia, have invented a new and
5 useful Improvement in the Mode of Feeding Water into Steam-Boilers; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawing, forming
10 part of this specification, in the several figures of which similar characters of reference denote the same part.

Figure 1 is a top view of my improvement. Fig. 2 is an end view of the same with one
15 end of the boiler removed so as to show the float inside. Fig. 3, is a vertical section on line *x, x*, through the center of the water chamber, and force pump.

This invention has for its object, regulating the feeding of the water into the
20 steam boiler and its nature consists in a certain combination of devices for that purpose, the details of construction and operation being as follows.

25 In the drawing A, represents the boiler, having an inverted cup shaped float C, which rises and falls with the water. This float is attached by rod E, to lever F, having its fulcrum on at pivot on standard H, and balanced by a sliding weight D, on the end, and
30 is connected at the other end by rod I, with the valve J, this valve being in the tube or water chamber G, which has a pipe *a*, conveying the water to it from the water-tank
35 B. There is also a force pump P, connected with the water chamber G, which supplies the water to the boiler through pipe *b*, so

that as the water in the boiler falls, the float C, falls with it and draws down the weighted end of lever F, which being connected by rod I, with the valve J, opens the valve and allows the water which flows into the chamber C, from tank B, through pipe *a*, to be conveyed by the force pump P, through pipe *b*, into the boiler, and as the water rises in the boiler the float C, also rises, and by means of lever F, closes the valve J, and stops the water from flowing into the force pump P. This force pump being constantly in operation, any water remaining in it or in the water chamber G, above the valve, at the time of said valve closing, will be conveyed by it to the boiler.

The float C is hollow and shaped like an inverted frustum of a cone.

Having described my invention and the operation thereof, I disclaim the employment of a float to regulate the supply of feed water broadly considered, but

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

The exterior water chamber G, communicating with the supply tank B, by pipe *a*, and with the boiler A, by force pump P, and pipe *b*, and provided with a valve J, as set forth, in combination with the peculiarly constructed float C, rods E, and I, and lever F, operating as and for the purpose specified.

JOSEPH B. THOMPSON.

Witnesses:

E. E. CODY,
M. W. ENGLISH.