

(No Model.)

G. W. REED.
GAS SAVING DEVICE.

No. 334,286.

Patented Jan. 12, 1886.

Fig. 1.

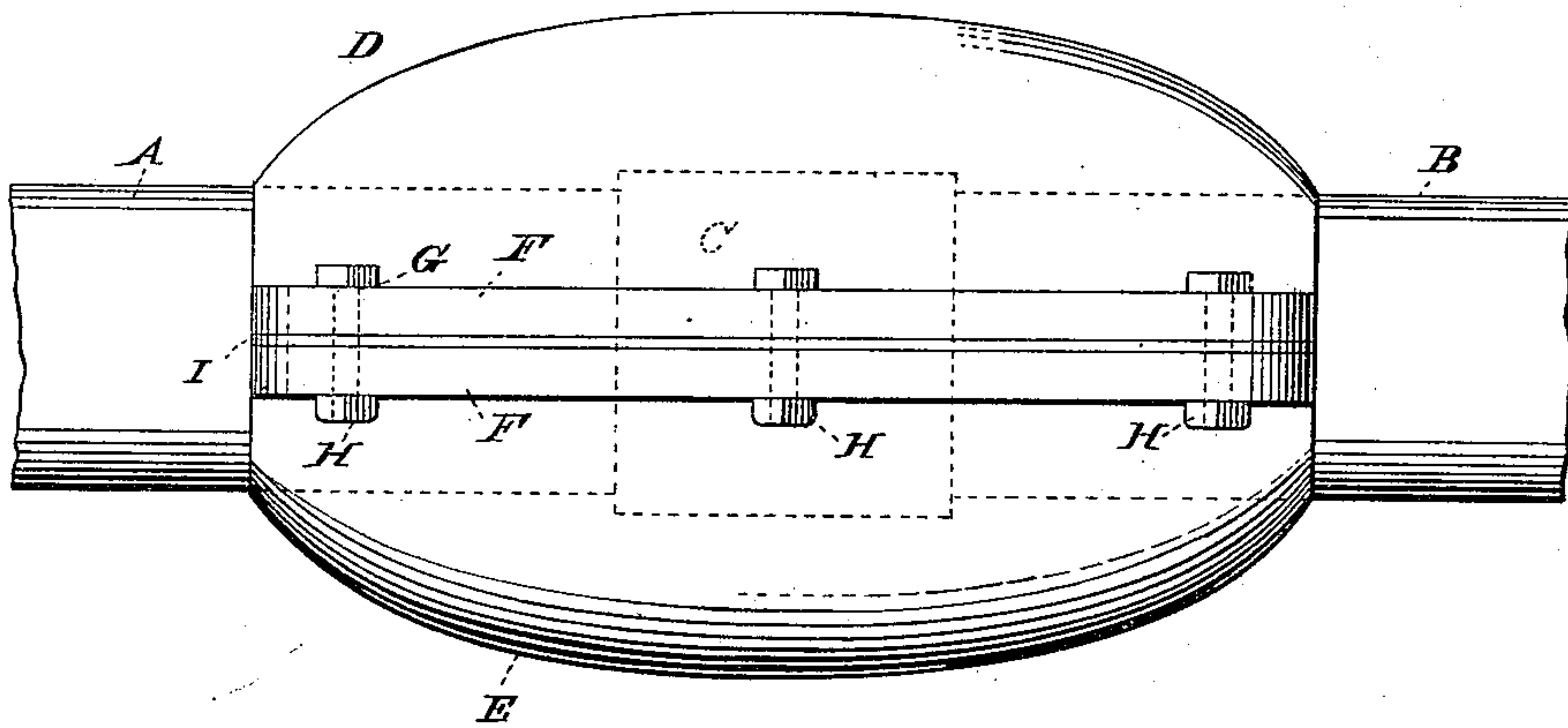


Fig. 2.

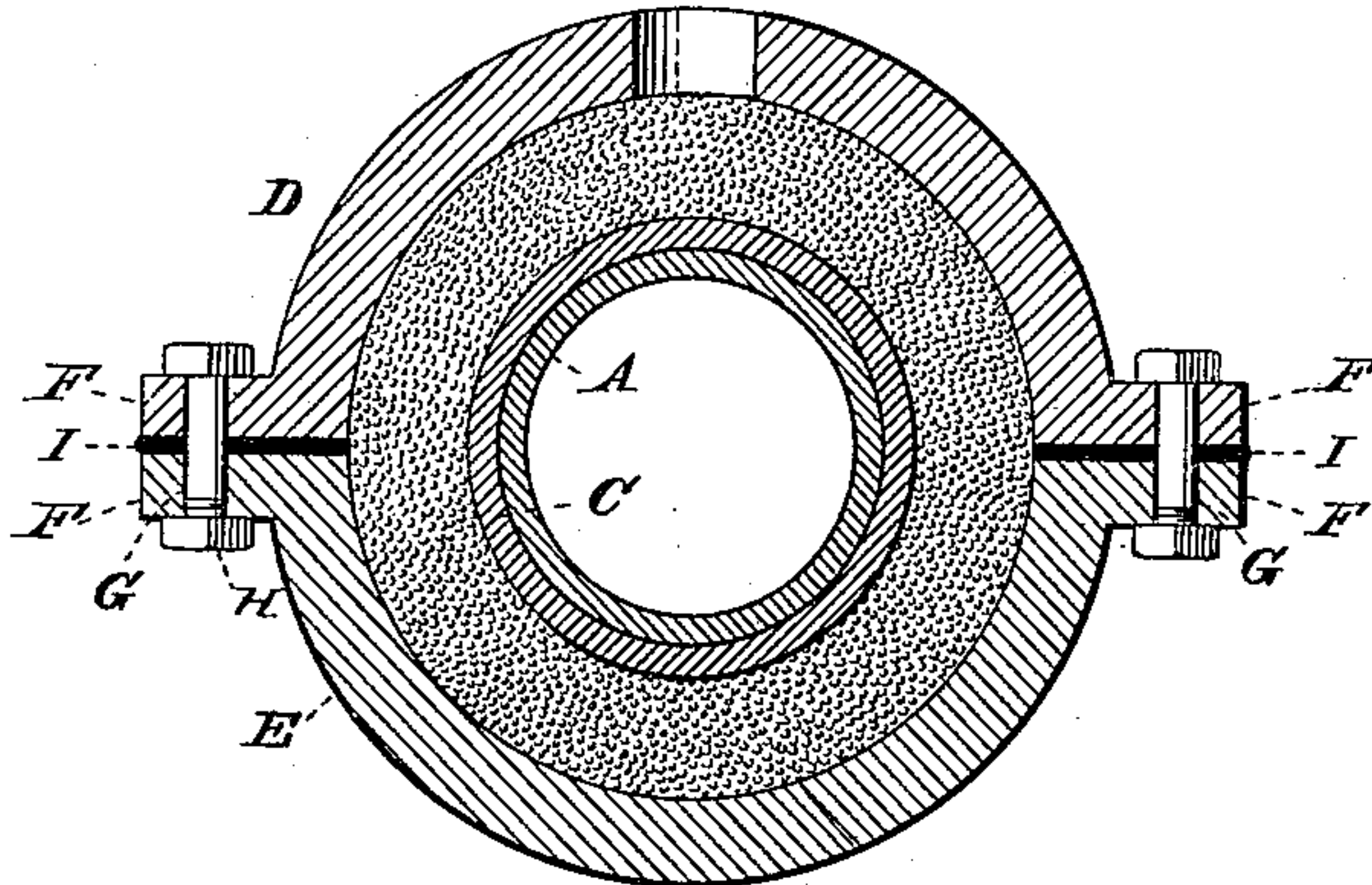
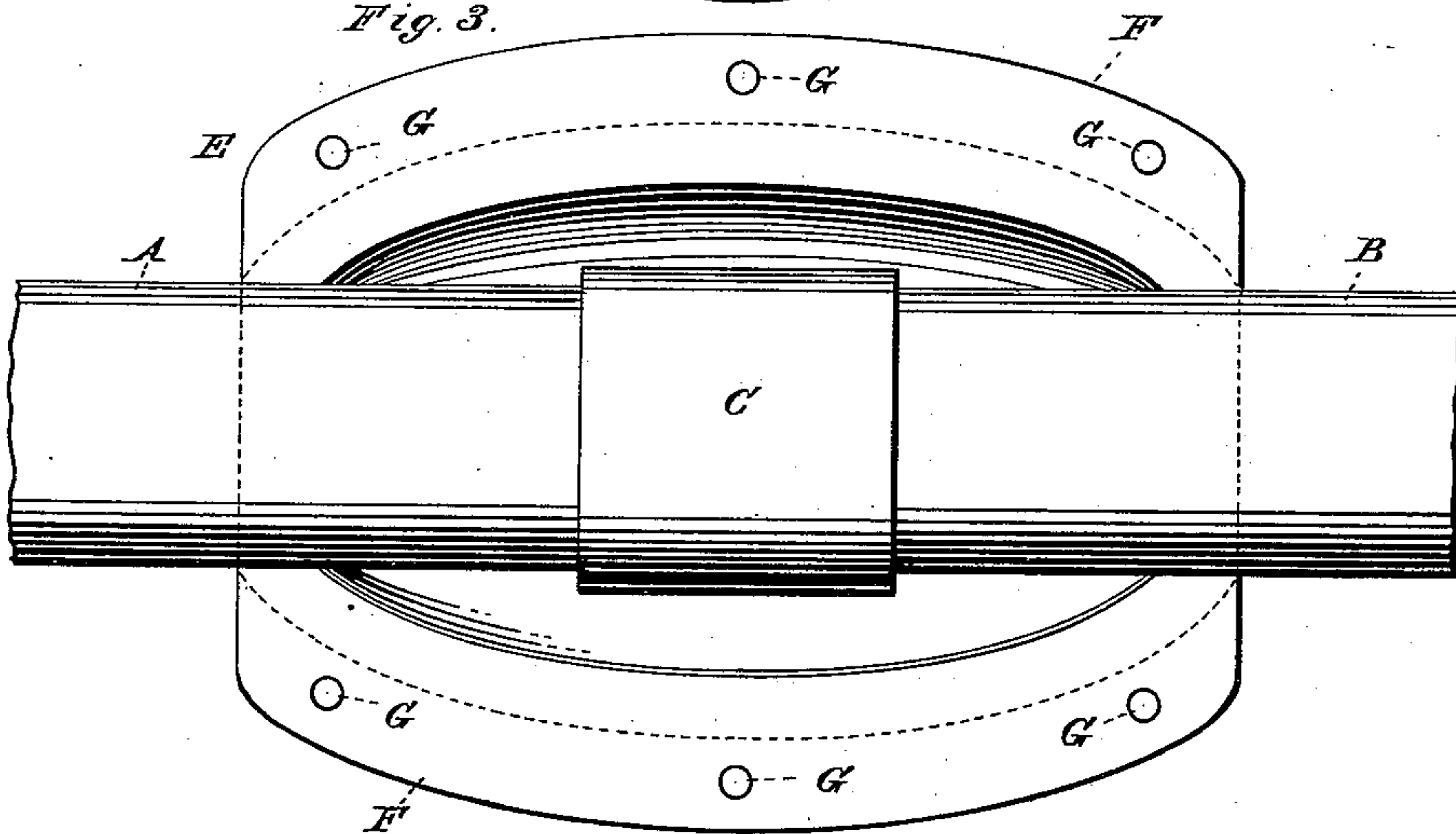


Fig. 3.



WITNESSES

Villette Anderson
Grace M. Craig

INVENTOR

Geo W. Reed
by Anderson & Smith
his ATTORNEYS

UNITED STATES PATENT OFFICE.

GEORGE W. REED, OF SALTSBURG, PENNSYLVANIA, ASSIGNOR OF ONE-HALF TO DAVID O. BROWN, OF SAME PLACE.

GAS-SAVING DEVICE.

SPECIFICATION forming part of Letters Patent No. 334,286, dated January 12, 1886.

Application filed June 19, 1885. Serial No. 169,232. (No model.)

To all whom it may concern:

Be it known that I, GEORGE W. REED, a citizen of the United States, residing at Saltsburg, in the county of Indiana and State of Pennsylvania, have invented certain new and useful Improvements in Gas-Saving Devices; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

Figure 1 of the drawings is a representation of this invention, and is a side view. Fig. 2 is a vertical cross-section. Fig. 3 is a top view of the under half of the device, with the pipes in place.

This invention relates to gas-saving devices, especially designed to prevent the escape of gas at the joints in gas-pipes; and it consists in the construction and novel combination of parts, as will be hereinafter fully described, and particularly pointed out in the claim.

Referring by letter to the accompanying drawings, A and B designate two sections of gas-pipe, and C a socket or ring connecting them in the manner usually practiced by plumbers and gas-fitters.

D designates the upper half, and E the lower half, of the casting that I employ at the pipe-joints in preventing leakage or escape of gas. The castings D and E are provided with flanges F, having bolt-holes G, through which the securing-bolts are passed, and are held in place by nuts H. The interior faces of the castings D and E are coated with white lead before being put in place, as are also the joints of

the pipe, for the purpose of taking up all of the loose sand that is common to all castings. I place strips, I, of rubber packing between the flanges of the castings, in order to assist in making the joint gas-tight. After the castings have been put in place and securely bolted around the joint I take good English cement, or some other cement equally as good, and mix one part of the cement with one part of sand, and pour the mixture into the opening in the upper casting, and fill the space between the castings and the joint with the cement. These upper and lower flanged housings may be made of soft metal, if desired, and may be either cast or pressed into the proper form. The filling may be of molten lead or solder, if preferred; but before filling with molten lead or solder the pipe and inside of chamber are coated with a solution of sal-ammoniac or muriatic acid, so the solder will form a complete union with the pipe.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent of the United States, is—

A pipe-coupling guard consisting of the two concave cast sections D E, having the lateral longitudinal flanges F, provided with perforations for securing-bolts, the elastic packing-strips I, arranged between the said flanges, an inner coating of white lead, and a filling of cement, all arranged and adapted to serve with two united sections of pipe substantially as shown and described.

In testimony whereof I affix my signature in presence of two witnesses.

GEORGE W. REED.

Witnesses:

S. M. STEWART,
W. MOORE.