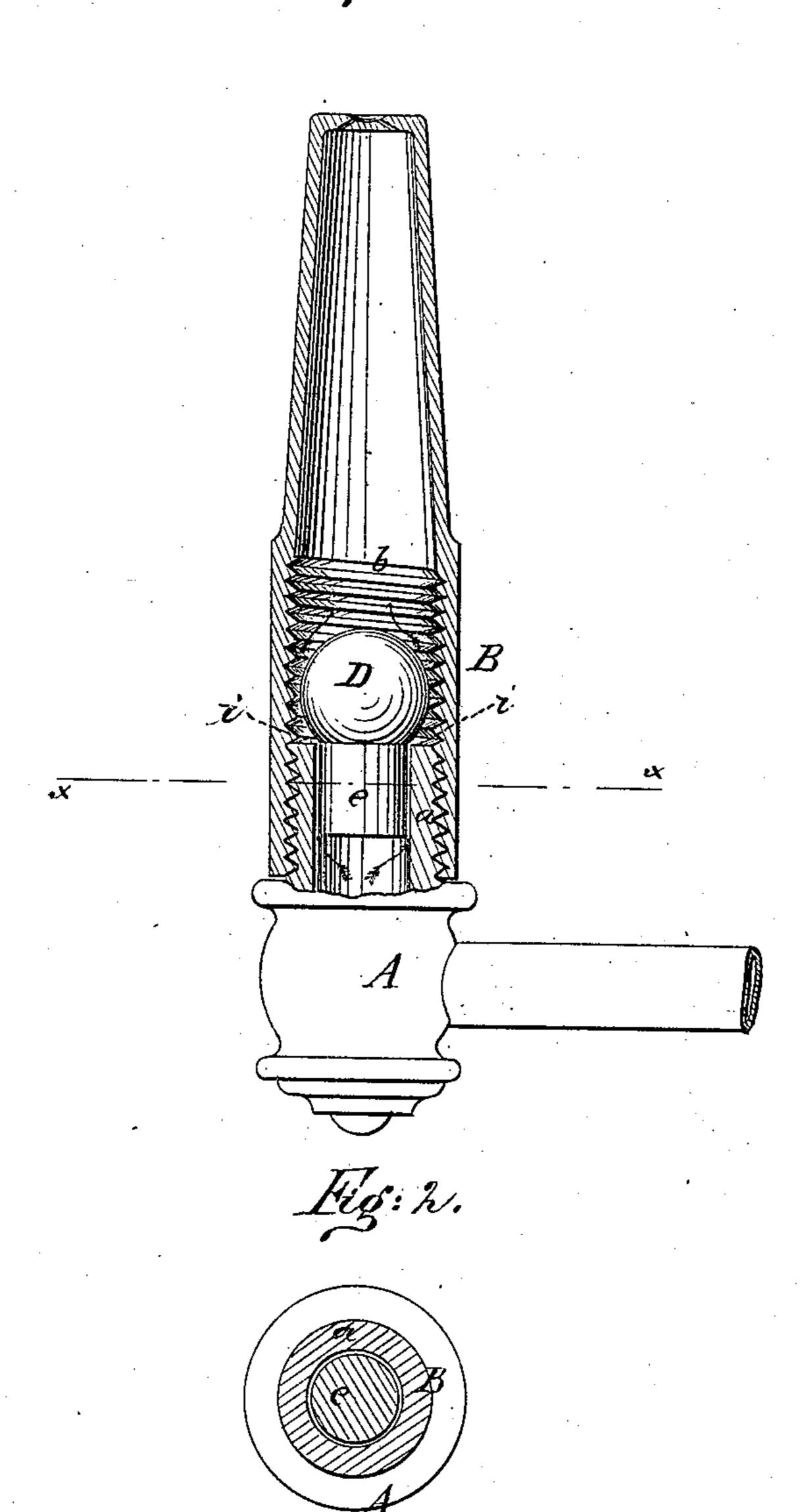
W. & W. S. BEDELL.

GAS-BURNERS.

No. 193,845.

Patented Aug. 7, 1877.

Fig: 1



WITNESSES:

Chas. Nida Meficarborough. INVENTORS

W. Bedell.

BY

ATTORNEYS

United States Patent Office.

WILLIAM BEDELL AND WINFIELD S. BEDELL, OF NEW YORK, N. Y.

IMPROVEMENT IN GAS-BURNERS.

Specification forming part of Letters Patent No. 193,845, dated August 7, 1877; application filed July 13, 1877.

To all whom it may concern:

Be it known that we, WILLIAM BEDELL and WINFIELD S. BEDELL, of the city, county, and State of New York, have invented a new and Improved Gas-Burner, of which the fol-

lowing is a specification:

This invention relates to gas-burners; and the nature of our invention consists in combining a valve which has a guide-stem or tail formed on it, with a square seat formed on the upper end of the lower section of a two-part burner, whereby there is a double check to the flow of gas into the upper section of the burner, and a uniform supply of gas, automatically regulated, is obtained, as will be hereinafter explained.

In the annexed drawings, Figure 1 is a diametrical section through the entire upper section, and through part of the lower section of a gas-burner, showing our improved check-valve applied to it. Fig. 2 is a section taken horizontally through dotted line x x.

Similar letters of reference indicate corre-

sponding parts.

In the annexed drawing, A designates the lower tubular section of the burner, which receives the supply of gas through a suitable pipe, and is constructed with an external or male screw-threaded portion, a, adapted to receive the upper section B of the burner, as shown in Fig. 1. This upper section may be constructed with discharge-orifice, a slit, or any other desirable form of exit may be adopted.

D designates a ball, which is of less diameter than the internal diameter of the gas-chamber b, so that it will offer no serious obstruction to the upward passage of gas. This ball D is constructed with a cylindrical neck or guidestem, e, which is loosely applied inside of the

male tubular portion a of the lower burnersection A, and preferably constructed with a flat bottom, although a slight concavity or convexity of the bottom will not be objectionable. This check-valve may be made of lead, an alloy of lead and tin, or of any other suitable metal.

The spherical portion D rests upon the angular edge i of the flat top of section A, and is held down by its own weight and the weight

of guide-stem e.

Gas rising through the lower section A first impinges against the lower end of the stem e, and is uniformly spread outward. The gas then rises and is again spread outward all around the ball D into the chamber b. Thus we have two checks for the gas ascending through the burner, which will render the flow regular even under varying pressures or heads.

Our invention is applicable to a great variety of gas-burners without in any manner changing their construction.

We are aware that valves with guide-stems to them are not new per se, and therefore we

lay no claim to such devices.

Having thus fully described our invention, we claim as new and desire to secure by Letters Patent—

A gas-burner constructed of two detachable tubular sections, and having combined with it a regulating-valve, D, on which is constructed a tail or guide, e, forming an auxiliary regulator, substantially in the manner and for the purpose specified.

WILLIAM BEDELL. WINFIELD S. BEDELL.

Witnesses:

C. SEDGWICK, ALEX. F. ROBERTS.