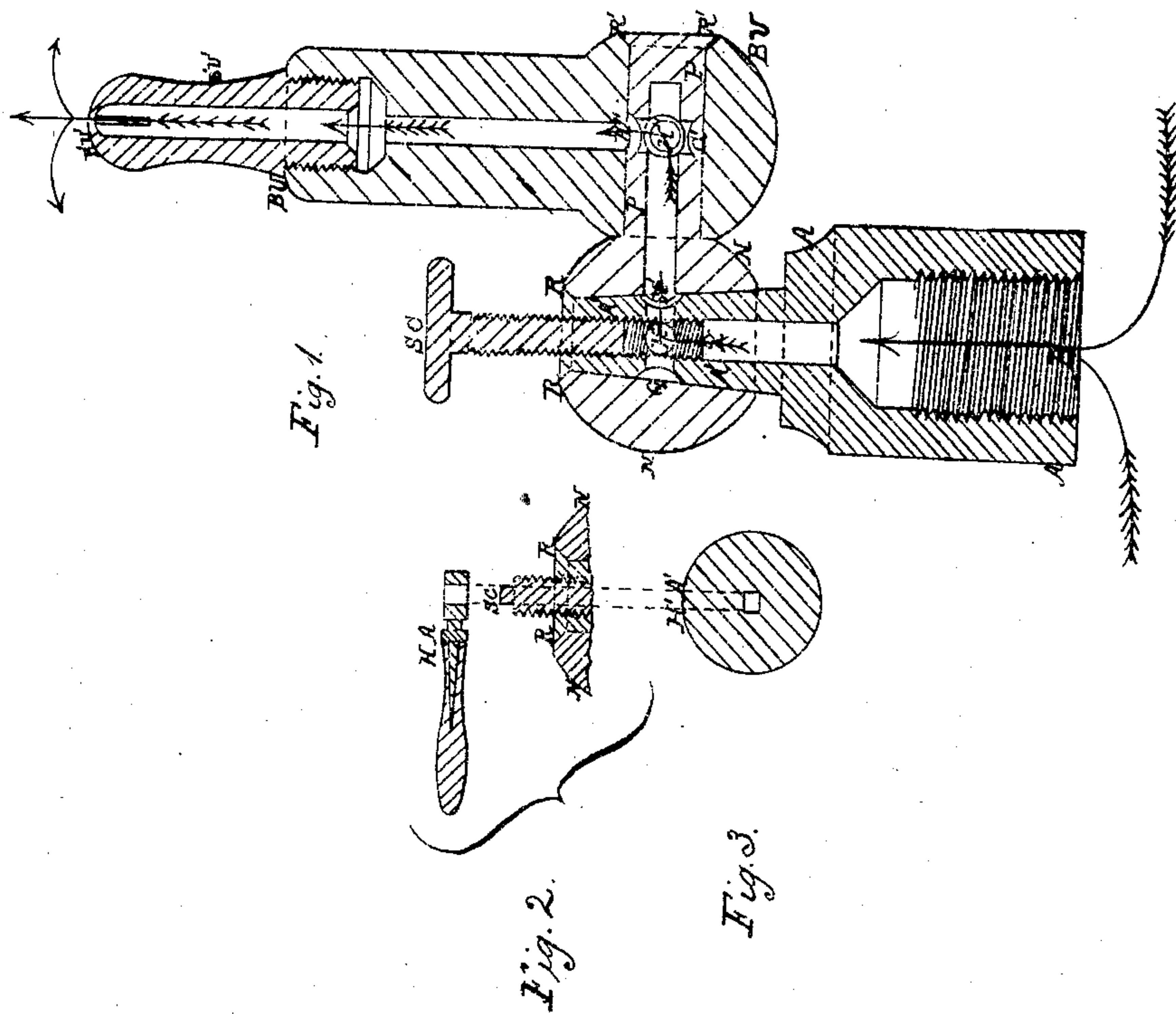


C. S. Ford.
Gas-Burner.

N^o 76069

Patented Mar. 31, 1868



Witnesses
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United States Patent Office.

CHARLES S. FORD, OF PHILADELPHIA, PENNSYLVANIA.

Letters Patent No. 76,069, dated March 31, 1868.

IMPROVEMENT IN GAS-BURNERS.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, CHARLES S. FORD, of the city and county of Philadelphia, in the State of Pennsylvania, have invented a new and useful Improvement in "Gas-Burners;" and I do hereby declare that the following is a full and exact description of my invention, reference being had to the accompanying drawings making a part of this specification, and which show a sectional elevation of my improved burners.

The object of my invention is to provide a gas-burner that can be turned and placed in any desirable position without any escape of gas, and which, by means of a certain and very simple contrivance, will enable those who use it to regulate at will the quantity of gas burned.

To enable others skilled in the art to make and use my invention, I will now proceed to describe its construction and operation.

A is the body of the burner, screwed in B on the gas-fixture, as any ordinary burner; A is therefore inflexible, and remains invariably, as shown in the drawing, vertical. Part A' of the body A is made tapering, and bears a round nut, N, A' passing up through nut N, which is held in proper place, viz, presenting in the rotary movement to go up, by riveted head R. Nut N is made with a projection, P, on one of its sides, on which fits burner B U, said burner being there secured by riveted head R' R'. I thus obtain a gas-burner completely articulated, viz, which can revolve horizontally around A' by means of nut N, and vertically around P by means of B U. Part B U of my burner could be made out of one solid piece of metal, but as it is riveted on P at R', if the head B U of the burner becomes worn out, it would give a great deal of trouble to file the rivet off to change B U, to avoid which trouble I make my burner in two pieces, B U and B' U', as shown in the drawings. The gas, entering the body A of the burner at B, follows the arrows marked on drawing, and in the usual way reaches the head B' U' of the burner.

A groove, G, is made all around A', and two holes, H and H', are bored through and through at right angles through A'; therefore, in whatever position nut N may be placed, the gas will always be allowed to continue its course up to B' U'. A similar disposition of groove G and holes H'' and H''' is made on P, and for the same object. Now a female thread is cut in A', and in said thread sets the male flat-head screw s c, which is made long enough to see that when it is screwed enough down to have its heads on or near R, it, the screw, will stop the gas in X and prevent its reaching the holes H and H'. Therefore, if screw s c is so as to obstruct only part of holes H and H', it will effectually diminish the amount of gas allowed to reach B' U'. Again, one of my objects in using screw s c is to obtain a regulator of the quantity of gas to be burned.

On gas-lights used in private rooms, where the parties can or should be trusted with the quantity of gas they may like to burn, I use a screw with a flat head, as has been above described. But when, for some particular purpose, it is desired that one person should control and regulate, without interference, the amount of gas to be consumed, the head of my screw s c is then made square, as shown in s c, fig. 2, and a small handle or wrench, H A, permits to screw s c up or down to suit the intended purpose, and when the wrench is removed the screw cannot be regulated by other parties not in possession of the handle. Instead of a wrench, a round head, with a square hole, fitting the head of s c, as shown in fig. 3, can be used.

I do not intend to claim broadly the invention of an articulated joint, but I intend claiming the application of said articulation to gas-burners.

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

1. The application to gas-burners of a universal articulated joint, composed of body A, nut N, and projection P, burner B U and head of burner B' U', the whole constructed and operating in the manner and for the purpose set forth and described.

2. The peculiar construction of body A, combined with screw s c, for the purpose above described and set forth.

CHARLES S. FORD.

Witnesses:

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