

J. R. SHIRLEY.
GAS DISTRIBUTERS.

No. 177,965.

Patented May 30, 1876.

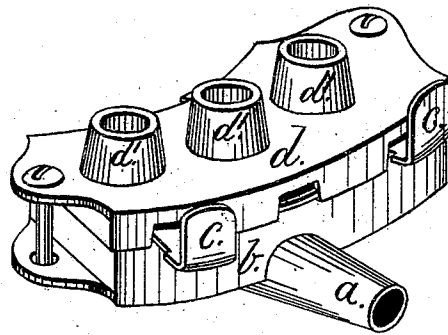


FIG. 1.

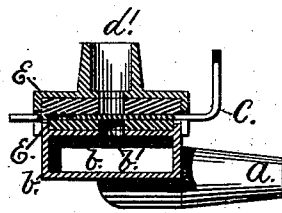


FIG. 2.

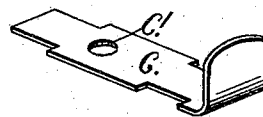


FIG. 3.

WITNESSES.

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UNITED STATES PATENT OFFICE.

JOHN R. SHIRLEY, OF PROVIDENCE, RHODE ISLAND.

IMPROVEMENT IN GAS-DISTRIBUTERS.

Specification forming part of Letters Patent No. **177,965**, dated May 30, 1876; application filed April 25, 1876.

To all whom it may concern:

Be it known that I, JOHN R. SHIRLEY, of the city of Providence, State of Rhode Island, have invented new and useful Improvements in Gas-Distributers; and I hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming part of this specification.

Figure 1 is a perspective view of my improved gas-distributer and multiple-valve. Fig. 2 is a cross-section of the same. Fig. 3 is a perspective view of one of the slides.

This invention has reference to a new and useful device for distributing gas to any desired number of burners so that the gas-supply to any burner or set of burners can be regulated or be entirely shut off. It is designed to control the use of gas in dwelling-houses, hotels, manufacturing establishments, gas-stoves, or other places where a number of burners or a number of systems of burners are used.

In a dwelling-house the distributer may be placed in any convenient part of the house, and, if desired, in a locked-up box. It will be connected by one main pipe with the gas-meter, and from the distributer branches will be carried to the different stories, or, if desired, to the different rooms.

If the gas-distributer is thus placed in the hall or the office of the building, the gas can be readily shut off from any part of the building, and no person can use gas without the consent of the owner, nor will there be any loss from leakage in the part so shut off.

If used on a gas-stove, or other similar device requiring more than one burner at times, the gas is connected with the distributer, and is let onto or shut off from any one of the burners by the slide regulating the supply for that burner, all the slides being in one convenient place, readily accessible, thus doing away with the numerous cocks now required.

In the drawings, *a* is the main inlet-pipe by which the gas is supplied. *b* is the distributing-chamber, provided with a number of

holes, *b'*, as shown in Fig. 2, through which the gas can pass to the different branches when open. *c c* are slides or gates, one of which is arranged over each one of the holes *b'* in the distributing-chamber. These slides *c* are also provided with the holes *c'*, and when the slides are placed so that the hole *c'* is over the hole *b'*, the gas will flow to the desired burners or system of burners. *d* is the nipple-plate, which is secured to the distributing-chamber *b* in any suitable manner—preferably by screws, so that the same may be readily removed. The slides *c c* are arranged and bedded between the nipple-plate and the distributing-chamber, so as to make gas-tight joints. *d' d'* are the screw-nipples, to which the pipes leading to the different burners are secured. *E E* are two washers, made of leather, rubber, or other suitable material. These washers have holes punched, or otherwise formed, corresponding with the holes in the distributing-chamber and nipple-plate. These washers *E E* form a packing, and secure a gas-tight joint, while the slides *c c* are allowed to slide freely in and out. The whole forms a simple, cheap, and efficient arrangement, by which gas can be readily distributed to any number of burners or system of burners, and thus each may be readily controlled.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. The combination, with the distributing-chamber *b*, of the nipple-plate *d*, and the slides *c c*, arranged substantially as and for the purpose described.

2. In a gas-distributer, the combination, with the inlet-pipe *a* and nipple-plate *d*, of the distributing-chamber *b*, and the slides *c c*, arranged to distribute and regulate the gas to any required number of burners or system of burners, substantially as and for the purpose specified.

JOHN R. SHIRLEY.

Witnesses:

JOSEPH A. MILLER,
G. B. BARROWS.