J. KIRSCHBAUM.

INVERTED INCANDESCENT GAS BURNER.

APPLICATION FILED DEC. 28, 1917.

1,283,527. Patented Nov. 5, 1918.

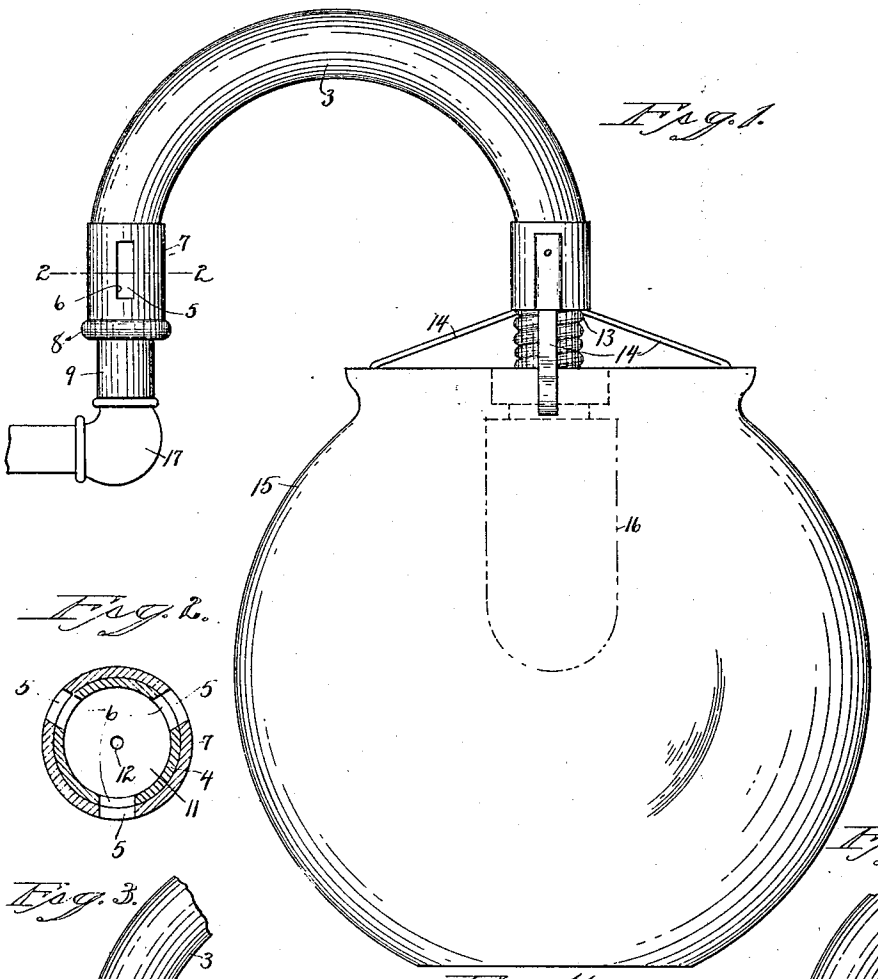


Fig. 1.

Fig. 2.

Fig. 3.

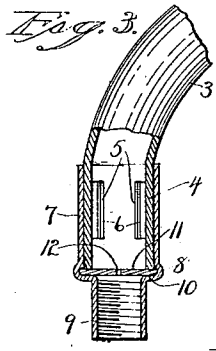


Fig. 4.

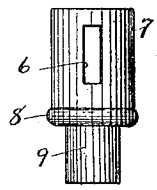


Fig. 5

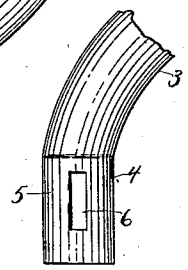


Fig. 6.



Inventor
John Kirschbaum
by Seymour Earle
Atty

UNITED STATES PATENT OFFICE.

JOHN KIRSCHBAUM, OF WATERBURY, CONNECTICUT, ASSIGNOR TO WATERBURY MFG. CO., OF WATERBURY, CONNECTICUT, A CORPORATION.

INVERTED INCANDESCENT GAS-BURNER.

1,283,527. Specification of Letters Patent. Patented Nov. 5, 1918.

Application filed December 28, 1917. Serial No. 209,205.

To all whom it may concern:

Be it known that I, JOHN KIRSCHBAUM, a citizen of the United States, residing at Waterbury, in the county of New Haven and State of Connecticut, have invented a new and useful Improvement in Inverted Incandescent Gas-Burners; and I do hereby declare the following, when taken in connection with the accompanying drawings and the characters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawings constitute part of this application, and represent, in—

Figure 1 a view in side elevation of an inverted incandescent gas-burner constructed in accordance with my invention.

Fig. 2 an enlarged view in transverse section on the line 2—2 of Fig. 1.

Fig. 3 a detached broken view partly in elevation, and partly in vertical section, showing the inner end of the goose-neck, and the bearing-sleeve.

Fig. 4 a detached view in elevation of the bearing-sleeve.

Fig. 5 a detached view of the inner end of the goose-neck.

Fig. 6 a detached edge view of the disk-like gas-check prior to its insertion into the bearing-sleeve.

My invention relates to an improved inverted incandescent gas-burner, the object being to provide a simple, convenient and effective fixture of the character described.

With these ends in view, my invention consists in an inverted incandescent gas-burner having certain details of construction as will be hereinafter described and pointed out in the claims.

In carrying out my invention, as herein shown, the goose neck 3 is formed at its inner end with a straight trunnion 4 provided with three equi-distant, oblong, axially arranged, rectangular air-ports 5 which co-act with three complementary air-ports 6 in an upstanding bearing-sleeve 7 formed upon its lower end with an integral concentric annular bead 8 from which an integral concentric, internally threaded mounting or coupling-nipple 9 depends. The difference in diameter between the bearing-sleeve 7 and the coupling-nipple 9 results in the production of a horizontal bearing-shoulder 10 for the support of a disk-like gas-check 11 having a central perforation 12 and initially produced in concavo convex form, as shown in Fig. 6, to adapt it to be passed downward through the sleeve 7 so as to rest upon the shoulder 10 after which it is flattened so as to increase its diameter, and cause it to fit snugly within the bead 8. The trunnion 4 aforesaid, fits into the sleeve 7 with an air-tight friction fit. By swinging the goose-neck to the right or to the left, the ports 5 and 6 co-act to regulate the amount of air admitted into it. As shown, the goose-neck is provided at its threaded outer end 13, which is parallel with its trunnion 4, with a shade-holder comprising three arms 14 supporting a shade 15 inclosing a mantle 16. My improved goose-neck burner is mounted upon an ordinary gas-fixture 17 upon which the coupling-sleeve 10 is screwed.

I claim:—

1. In an inverted incandescent gas burner, the combination with a swinging goose-neck provided at its inner end with a trunnion having one or more air ports, of a normally stationary upstanding bearing-sleeve receiving the said trunnion with a friction fit and having one or more complementary air-ports which are opened and closed by the rotation within the said sleeve of the said trunnion due to swinging the said goose-neck, and the said sleeve being provided with a depending coupling-nipple, and a gas-check interposed between the said sleeve and nipple.

2. In an inverted incandescent gas burner, the combination with a swinging goose-neck provided at its inner end with a trunnion having one or more air-ports; of an upstanding bearing-sleeve receiving the said trunnion with a friction fit and provided with air-ports complementing the air-ports

thereof, the said sleeve being formed at its lower end with a concentric annular bead for the reception of a gas-check, and the said bead being formed with a depending internally threaded coupling-nipple smaller in diameter than the said sleeve for the production of a bearing-shoulder upon which the gas-check rests.

In testimony whereof, I have signed this specification in the presence of two subscribing witnesses.

JOHN KIRSCHBAUM.

Witnesses:
A. C. RECKER,
J. S. NEAGLE.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."