

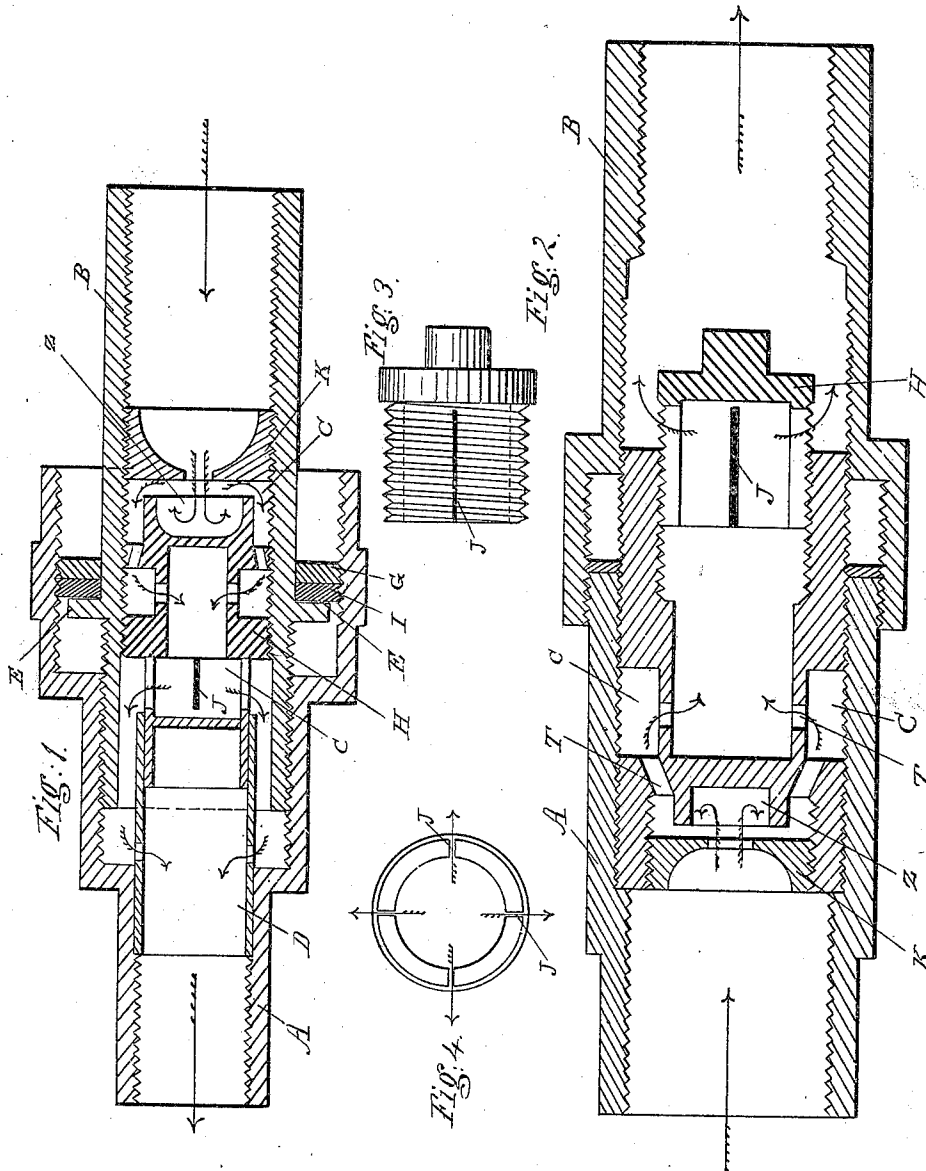
No. 691,186.

Patented Jan. 14, 1902.

F. SCHICK.
GAS REGULATOR.

(Application filed May 3, 1901.)

(No Model.)



WITNESSES:

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A. Astinkley.

INVENTOR

Fred. Schick

UNITED STATES PATENT OFFICE.

FRED SCHICK, OF BROOKLYN, NEW YORK.

GAS-REGULATOR.

SPECIFICATION forming part of Letters Patent No. 691,186, dated January 14, 1902.

Application filed May 3, 1901. Serial No. 58,658. (No model.)

To all whom it may concern:

Be it known that I, FRED SCHICK, a citizen of the United States, residing at No. 217 Bleecker street, in the city of New York, borough of Brooklyn, State of New York, have invented new and useful Improvements in Gas-Regulators, of which the following is a specification.

My invention relates to improvement in gas-regulators; and the objects of my invention are, first, to so construct a gas-regulator as to produce a series of chambers connected by a series of ports, whereby the extreme force of the flow of gas passing therethrough from chamber to chamber may be checked or governed so as to flow to the burners in a steady and equable current; second, means whereby the regulator may be adjusted to the varying pressure of the gas, as will be described, and, third, to provide means whereby the regulator may be adjusted from the exterior without deranging the mechanism thereof. These objects are attained by the mechanism illustrated in the accompanying drawings, in which—

Figures 1 and 2 are central longitudinal sections, respectively, showing different arrangements of construction. Figs. 3 and 4 are side elevation and end views, respectively, of a slotted recessed plug to gage the flow of gas therethrough or whereby the flow of gas to the burners may be shut off altogether.

Similar letters refer to corresponding parts throughout the several views.

The exterior or body of this gas-regulator is composed of two sections A and B, which are capable of adjustment longitudinally with one another, so as to increase or decrease the area of the chambers C through which the gas is to pass or to shut off the flow of gas therethrough altogether.

In Fig. 1 and to the interior of section A a pipe D is secured and fitted gas-tight to slide back and forth over a slotted chamber C, extending from and forming part of a cham-

bered plug H, thereby increasing or decreasing the flow of gas by covering the slots J more or less, as required, the slotted chamber C being stationary and the pipe D moved back and forth thereover by the adjustment of section A, to which it is secured.

To check any leakage of gas from between the two sections A B, a stop E projects outwardly from section B, between which and a jam-nut G packing I is placed, as shown in Fig. 1, thus forming a gas-tight joint.

In Fig. 1 the flow of gas through the slotted plug H is governed from the exterior by the adjustment of section A. In Fig. 2 the flow of gas through the slotted plug H is governed from the interior by adjusting the plug H back and forth, as shown.

In front of the first resistance-chamber Z is placed a concave or recessed plug K, concentrating therein the volume of gas, so as to enter the chamber Z centrally and, recoiling therein from the obstruction, passes on from chamber to chamber through the connecting-ports T, as indicated by the arrows, to the burners.

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

In a gas-regulator consisting of outer, adjustable casings, interior plugs forming a series of resistance-chambers in connection therewith, and ports connecting said chambers, a recessed, slotted plug in combination with a pipe to be operated, back and forth, by the outer, adjustable casing to which it is secured, substantially as set forth and shown.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, this 22d day of April, 1901.

FRED SCHICK.

Witnesses:

NATHAN BURKAN,
ESTELLE GOETSCHUS.