

No. 720,805.

PATENTED FEB. 17, 1903.

H. HERZ.
GAS LIGHT.

APPLICATION FILED OCT. 27, 1902.

NO MODEL.

Fig. 1.

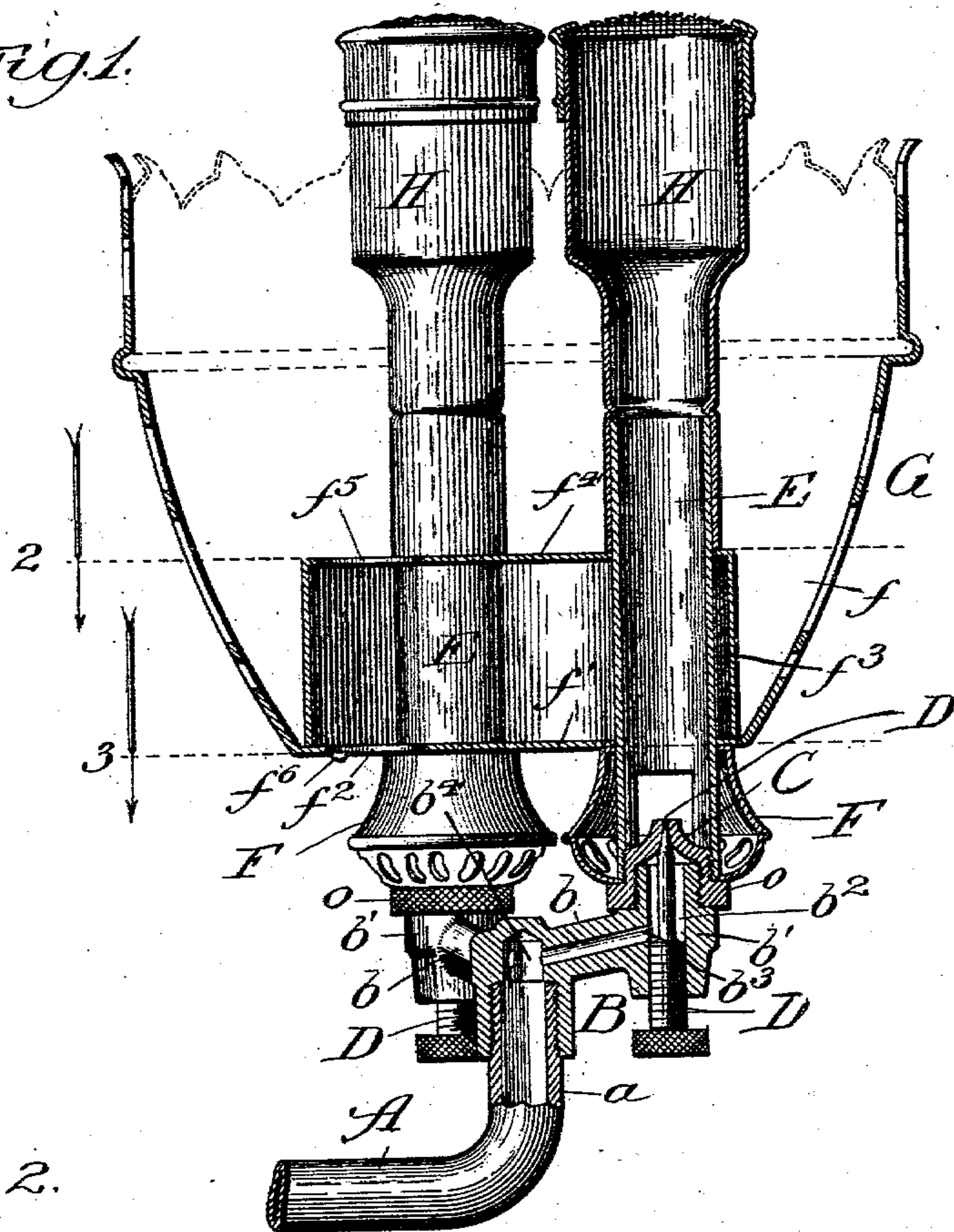


Fig. 2.

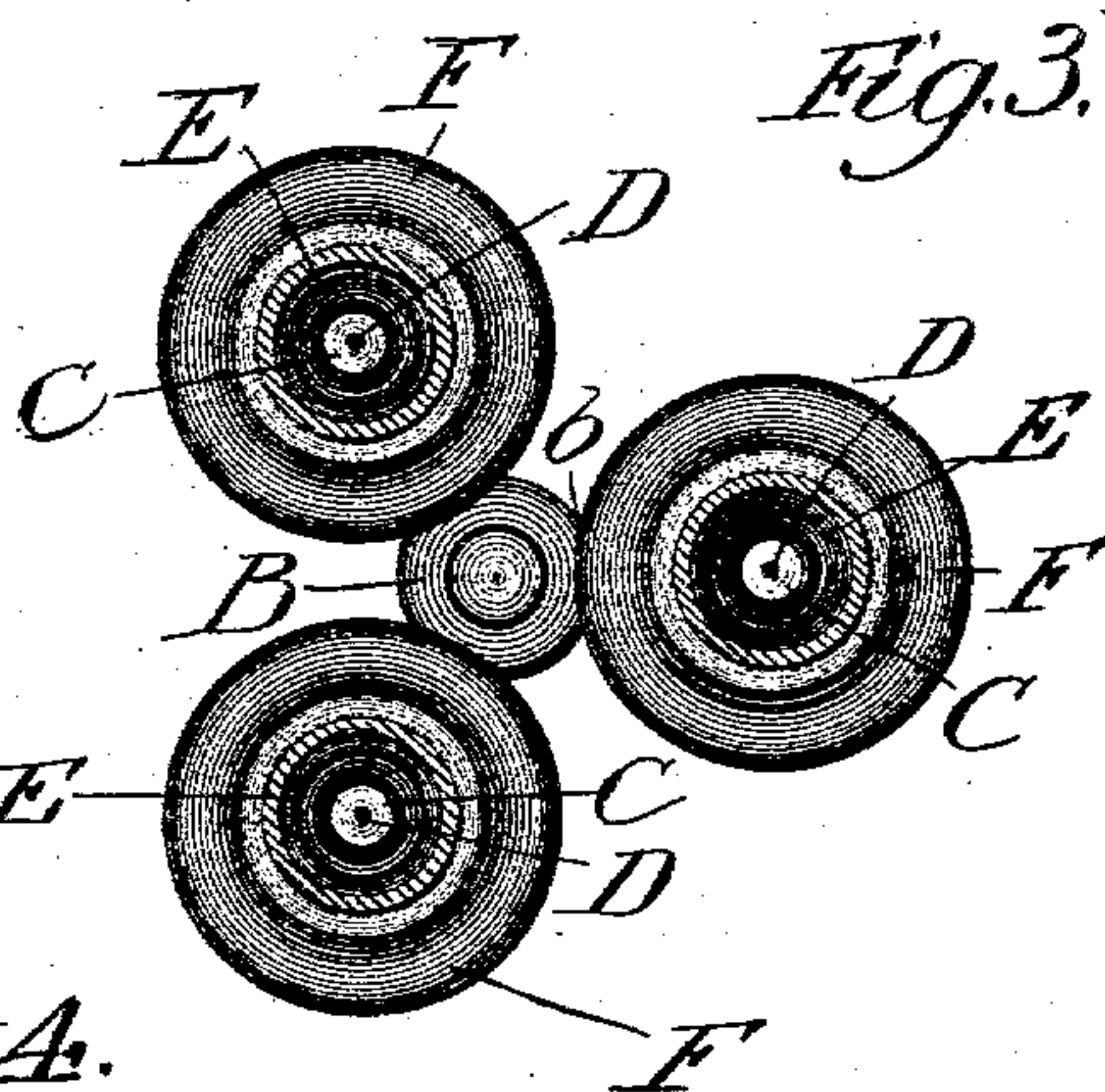
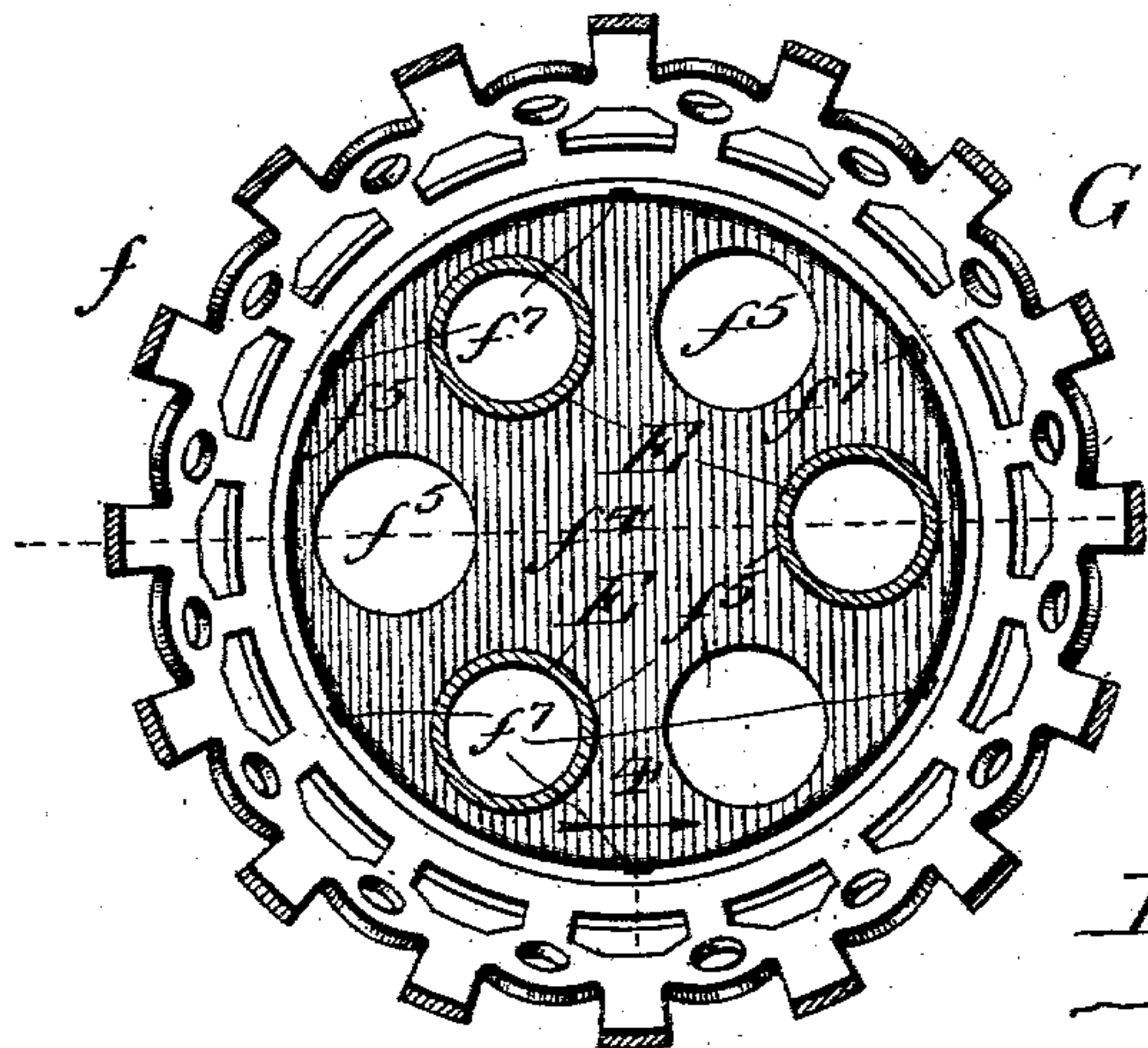
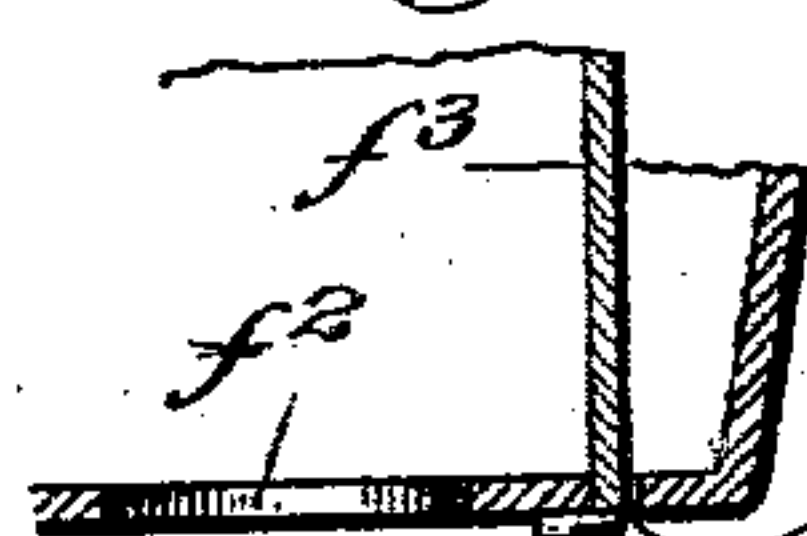


Fig. 4.



Witnesses:
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UNITED STATES PATENT OFFICE.

HUGO HERZ, OF CHICAGO, ILLINOIS.

GAS-LIGHT.

SPECIFICATION forming part of Letters Patent No. 720,805, dated February 17, 1903.

Application filed October 27, 1902. Serial No. 128,928. (No model.)

To all whom it may concern:

Be it known that I, HUGO HERZ, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have
5 invented a new and useful Improvement in Gas-Lights, of which the following is a specification.

My invention relates particularly to incandescent gas-lights; and my primary object is
10 to provide a plural-burner lamp of this character adapted to be applied to chandeliers, brackets, &c., in place of the single burners now commonly used thereon.

The invention is shown in its preferred
15 embodiment in the accompanying drawings, in which—

Figure 1 represents a vertical sectional view of a plural-burner gas-lamp applied to a bracket or chandelier-arm, the section being taken as indicated at line 1 of Fig. 2; Figs. 2 and 3, transverse sections taken at the corresponding lines of Fig. 1, and Fig. 4
20 a broken vertical section taken as indicated at line 4 of Fig. 2.

In the construction shown, A represents a tubular bracket or arm having an externally-threaded vertical extremity *a*; B, a hollow nipple or stem having an internally-threaded lower portion and a closed upper end with a
30 plurality of integrally-formed members or tubes *b* branching therefrom and equipped at their extremities with vertical bosses or enlargements *b'*, provided with vertical perforations *b²*, communicating through slightly-inclined passages *b³* with the central aperture
35 *b⁴* of the nipple; C, tips provided with tapered orifices through which the gas passes to the burner-cap, said tips having internally-threaded lower ends screwed onto the externally-threaded upper portions of the members
40 *b'*; D, needle-valves having threaded stems screwed into the internally-threaded lower ends of the members *b'*; E, Bunsen-burner tubes having threaded connection at their
45 lower ends with the tips C above the flanges *c* thereof and provided with air-inlets; F, spacing-thimbles slipped onto the tubes E and resting upon the flanges *c*; G, a dished globe-support and lamp-body provided with
50 vertical perforations receiving the tubes E, and H burners equipped with the usual gauze

caps and having tubular lower ends fitting over the upper ends of the tubes E.

The combination globe-support and lamp-body G preferably comprises an outer ornamental bowl-shaped member *f*, having a flat
55 circular bottom *f'*, provided with perforations *f²*, and a plain shorter inner cylindrical member *f³*, having a closed upper end *f⁴*. The inner member is really an inverted sheet-metal
60 cup or cylinder with one end closed, with its disk some distance above the bottom *f'* of the outer member and provided with perforations *f⁵* in vertical alinement with the perforations *f²*. The lower edge of the cylinder
65 has projections *f⁶*, which extend through perforations *f⁷* in the bottom *f'* and are clenched to secure the members together.

The tubes E are shown as three in number; but any desired number greater than one may
70 be used. The perforations which receive said tubes preferably are arranged in pairs, with diametrically opposite members. Six perforations are provided, so that the same device G will serve for a two, three, or four
75 burner lamp, the burners having a symmetrical arrangement in any case. The unused perforations serve to admit air.

It will be understood that the gas is controlled in the usual manner by a stop-cock
80 (not shown) on the bracket A, any number desired of the valves D being open. The needle-valves serve the double purpose of cleaning the gas-orifices and closing the same when desired. The body G serves as a frame,
85 which binds the tubes E together, and also as a globe-support, which is itself fixed in a substantial manner. At the same time the parts may be readily disconnected for shipment and
90 cleansing purposes. The nipple may readily be attached to various existing gas-fixtures having upturned threaded extremities.

Changes in details of construction may be made. Hence no undue limitation should be understood from the foregoing detailed de-
95 scription.

What I regard as new, and desire to secure by Letters Patent, is—

1. In a gas-lamp, the combination of a nipple having a depending threaded stem and a
100 plurality of offset upturned tips provided with gas-orifices, a plurality of burner-tubes

supported at said tips, and a combination globe-support and body provided with a plurality of perforations with vertical axes and fitting onto said tubes, for the purpose set forth.

2. In a gas-lamp, the combination of a nipple having a depending apertured stem and a plurality of offset upturned tips provided with gas-orifices, valves substantially parallel with said stem, a plurality of burner-tubes connected with said tips, spacing-thimbles inclosing the lower ends of said tubes, and a combination frame and globe-support resting on said thimbles and provided with perforations with vertical axes and receiving said tubes, for the purpose set forth.

3. The combination of a nipple having a depending apertured stem and a plurality of offset upturned tips provided with gas-orifices, burner-tubes supported on said tips, a body provided with a plurality of perforations receiving said tubes, and needle-valves located beneath said body and connected with said tips, for the purpose set forth.

4. The combination of a nipple having a depending apertured stem and a plurality of offset upturned tips provided with gas-orifices, burner-tubes supported on said tips, and a combination frame and globe-support provided with sets of bearings at different heights engaging said tubes, for the purpose set forth.

5. In means of the character described, the combination with the burner-tubes, of a combination frame and globe-support, comprising an outer ornamental member which receives the globe and has a bottom disk provided with tube-receiving perforations, and an inner member with a disk located some distance above the first-named disk and provided with tube-receiving perforations registering with said first-named perforations, for the purpose set forth.

HUGO HERZ.

In presence of—

L. HEISLER,
ALBERT D. BACCI.