

(No Model.)

E. LINDNER.
GAS COCK.

No. 566,590.

Patented Aug. 25, 1896.

Fig. 1.

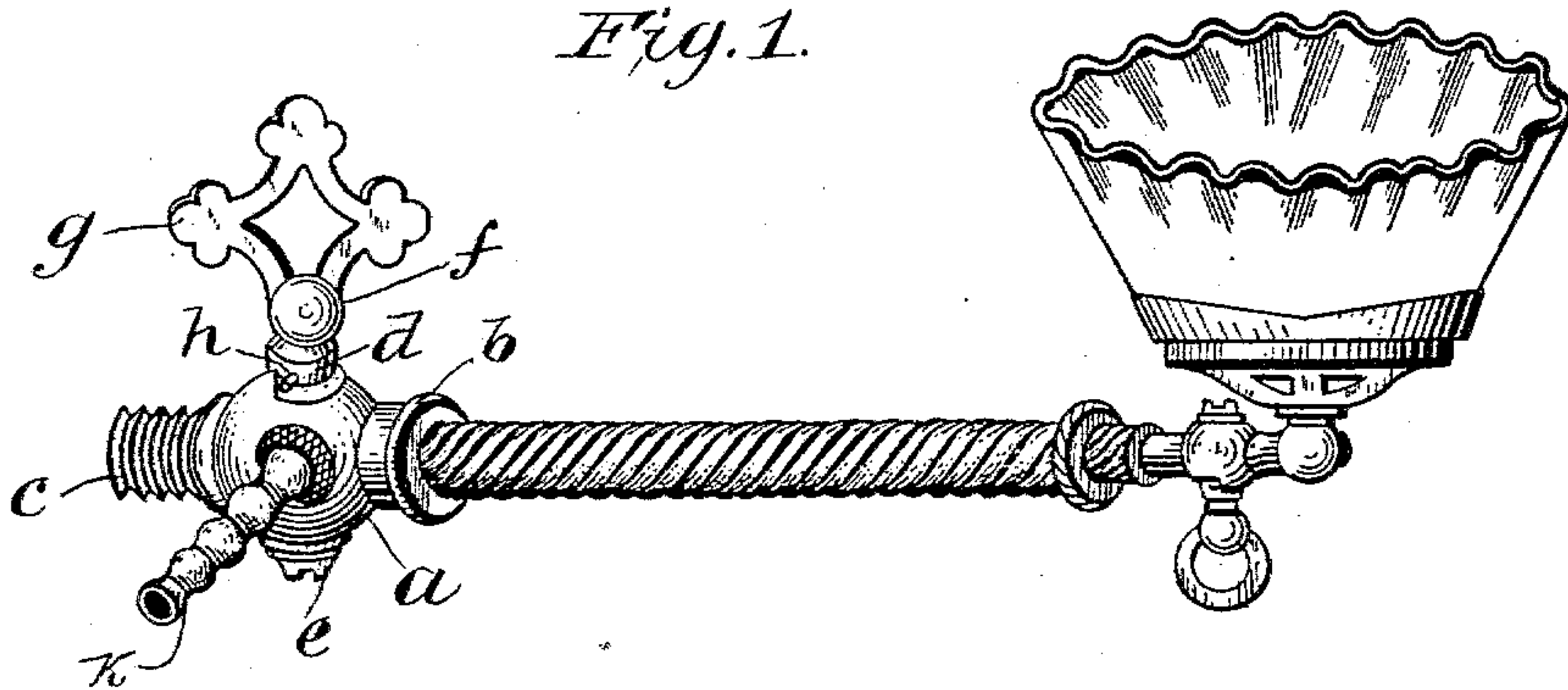


Fig. 2.

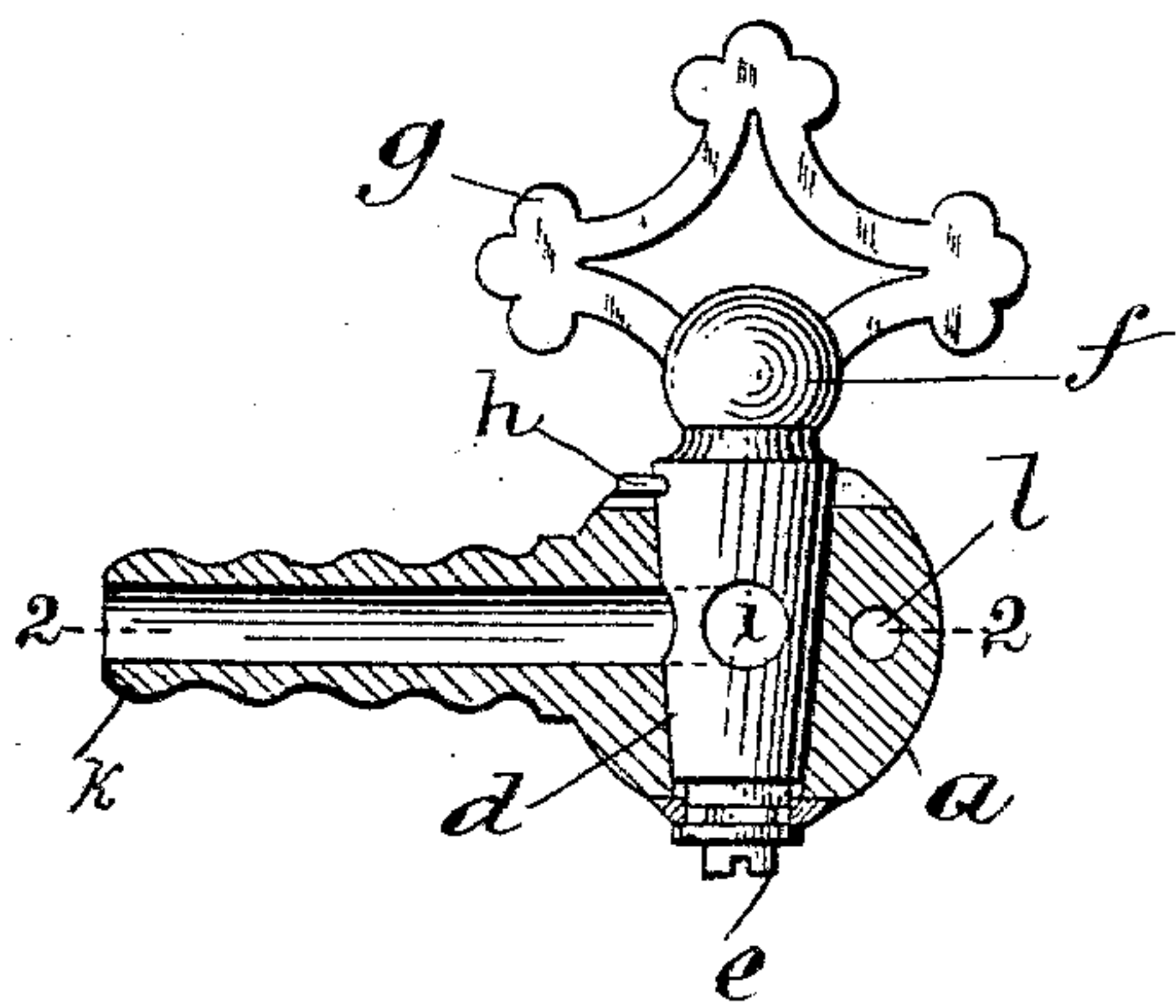
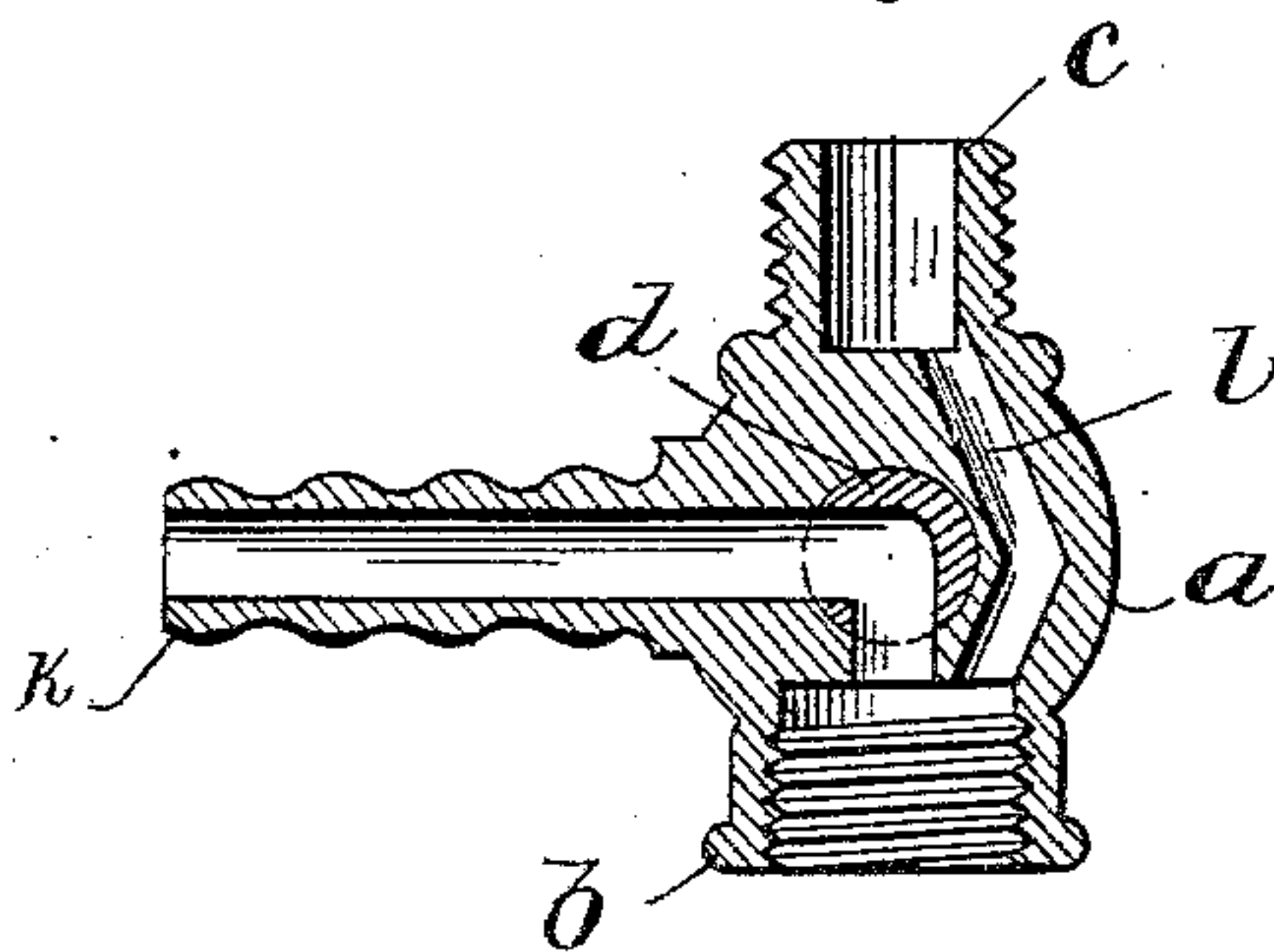


Fig. 3.



WITNESSES:

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GAS-COCK.

SPECIFICATION forming part of Letters Patent No. 566,590, dated August 25, 1896.

Application filed December 5, 1894. Renewed January 4, 1896. Serial No. 574,391. (No model.)

To all whom it may concern:

Be it known that I, ERNST LINDNER, a citizen of the United States, and a resident of New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Gas-Cocks, of which the following is a specification.

My invention relates to gas-cocks, and particularly where the cock is combined with the coupling-piece, which is adapted to be connected to the pipe supplying the gas and also to the bracket carrying the burner.

The object of my invention is to simplify and cheapen the manufacture of such devices, wherein there is combined with the coupling-piece a lateral branch adapted to connect with the tubing of rubber for supplying gas to a drop-light, gas-heater, or the like. As usually constructed the cock controlling the supply of gas through the lateral branch is placed within a casing or globe formed as a part of the lateral branch. This increases the cost and difficulties of manufacture, since it requires, in addition to the globe-casing between the coupling ends of the device, and from which casing the latter branch extends, an independent globe-casing in said lateral branch to receive the cock controlling the gas supplied through said branch. By my invention I dispense with one of these globe-casings, utilizing the globe-casing between the coupling ends of the device for the cock regulating the supply of gas to the lateral branch. In the manufacture of my gas-cock all the parts are made from a solid bar or rod of metal on a suitable lathe, no casting whatever being made use of, and hence expense of finishing the device by polishing, &c., is avoided.

An embodiment of my invention is shown in the accompanying drawings, in which like parts are indicated by like letters of reference in all the views, and wherein—

Figure 1 is a view in perspective showing a gas-bracket provided with my improved gas-cock. Fig. 2 represents a vertical sectional view through the globe or shell between the coupling ends of the device and longitudinally through the lateral branch, the gate-key and its thumb-piece being in side elevation. In this view, as well as in Fig. 1, the thumb-piece is shown at the top of the

casing, though when in use it will ordinarily be at the bottom. Fig. 3 is a horizontal longitudinal sectional view on the line 2 2 of Fig. 2.

Referring to the drawings, *a* indicates the central enlargement or globe-casing of the device *b* a coupling end, which is adapted to connect with the gas-supply pipe and is screw-threaded internally, as shown, for that purpose, and *c* the coupling end externally screw-threaded and adapted to receive the bracket provided with the gas burner or burners. The casing *a* is provided centrally and vertically with the valve-seat, which is tapered, as shown, in the usual manner to receive the tapered gate-key *d*, and which latter is secured within its seat by a nut *e* or equivalent means.

That portion of the gate-key *f* outside of the casing is of a round configuration and is provided with a thumb-piece *g* of any suitable design. The shank *d* of the gate-key is also provided outside of the casing with a stop *h*, whereby the revolving motion of the gate-key within the casing is controlled and limited. The shank *d* is likewise provided with a passage through it laterally, as indicated at *i*.

The casing *a* is formed with the lateral extension *k*, having a channel through it communicating at its inner end with the coupling end *b*, and the outside surface of the lateral branch or extension *k* may be corrugated or similarly formed to facilitate the retention of the rubber tube thereon. The casing *a* is also provided with a through-passage *l* in the rear of the wall of that portion of the casing through which the vertical valve-seat is made. The passage *l* communicates with the coupling ends *b c*, and is adapted to supply a continuous flow of gas to the burner on the bracket which is secured to *c*, the cock controlling the supply to the burner being on the bracket. The supply of gas to the lateral branch *k* is controlled by the suitable adjustment of the key *d* within the casing. In both views the key *d* is adjusted to permit the flow of gas through the lateral branch *k*.

It is obvious that by reversing the key its lateral opening *i* will be out of register with the passage through the lateral branch *k* and the solid portion of the key will effectually close such passage.

By my present invention, whereby the means for controlling the supply of gas to the lateral branch are located within the casing *a*, through which also extends the passage for the supply of gas to the burner on the bracket, I produce a compact and cheap fixture, all the parts of which, as before stated, being turned out of solid bars of metal.

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

1. As a new article of manufacture, a coupling device for gas-fitting consisting of a globe or casing provided with two coupling ends, a through-passage between said coupling ends, a lateral branch or extension having a through-passage communicating with one of said coupling ends and with a vertical seat within said casing which is adapted to receive a controlling gate or valve, substantially as set forth.

2. A gas-cock consisting of a central globe or casing, provided with coupling ends and a lateral branch or extension, the latter having a through-passage communicating with one of said coupling ends and the casing having a through-passage communicating with both coupling ends and a central valve-seat, in combination with a gate-key fitted within the seat of the casing and provided with a lateral opening adapted to register with the passage-way through said lateral branch, substantially as set forth.

Signed at New York, in the county of New York and State of New York, this 13th day of November, A. D. 1894.

ERNST LINDNER.

Witnesses:

THEO. H. MULCH,
FRED RUCKERT.