

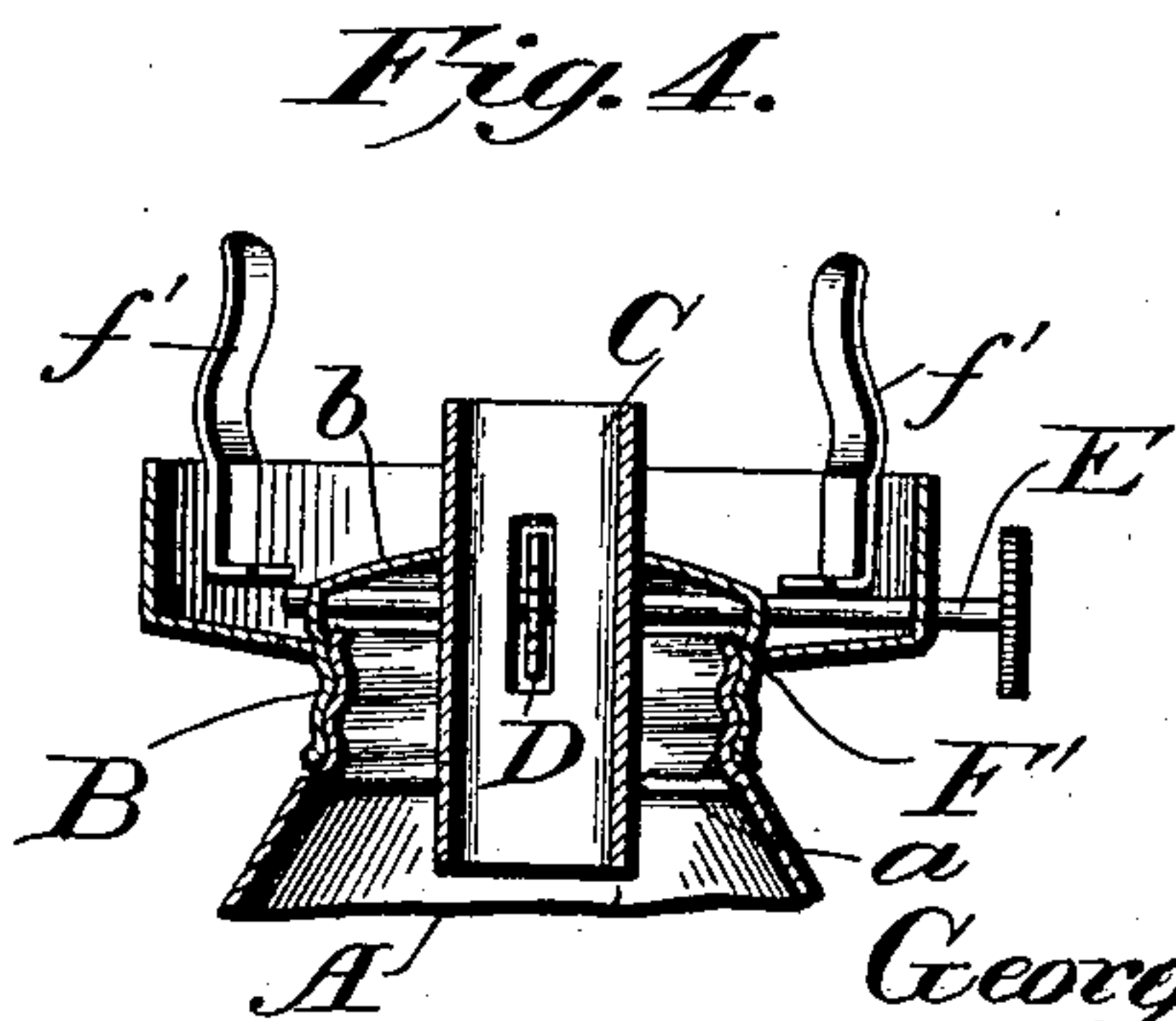
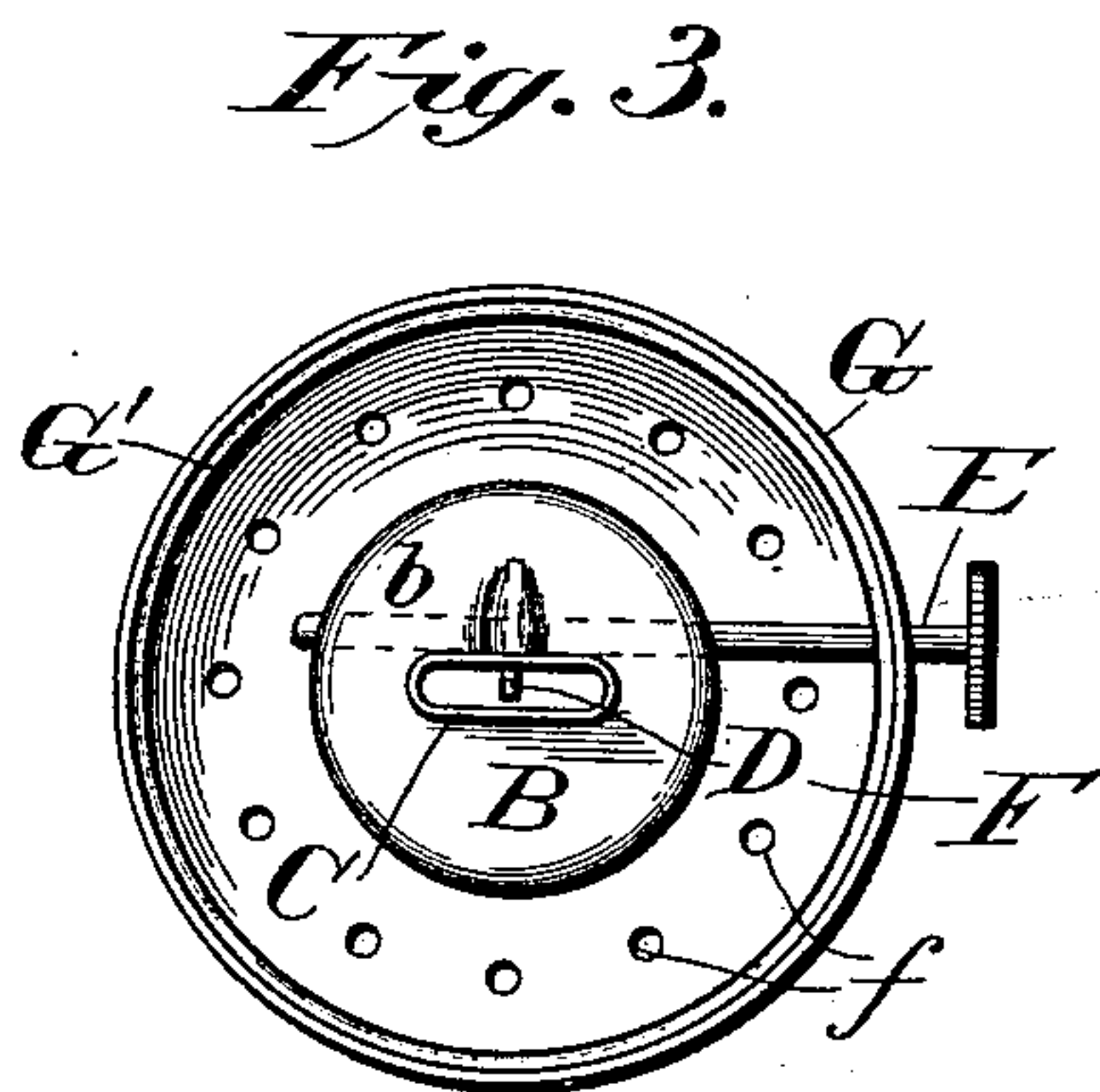
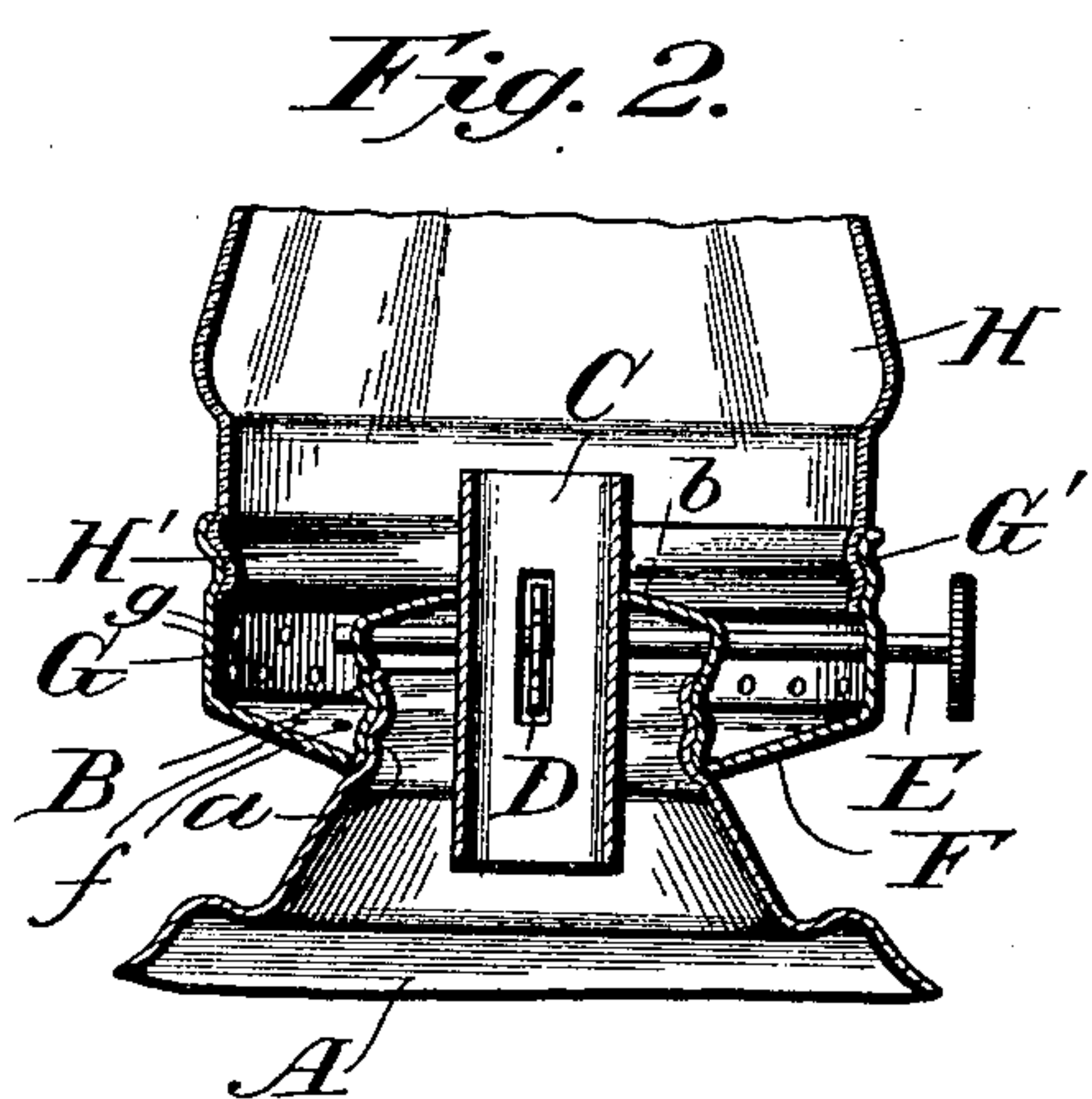
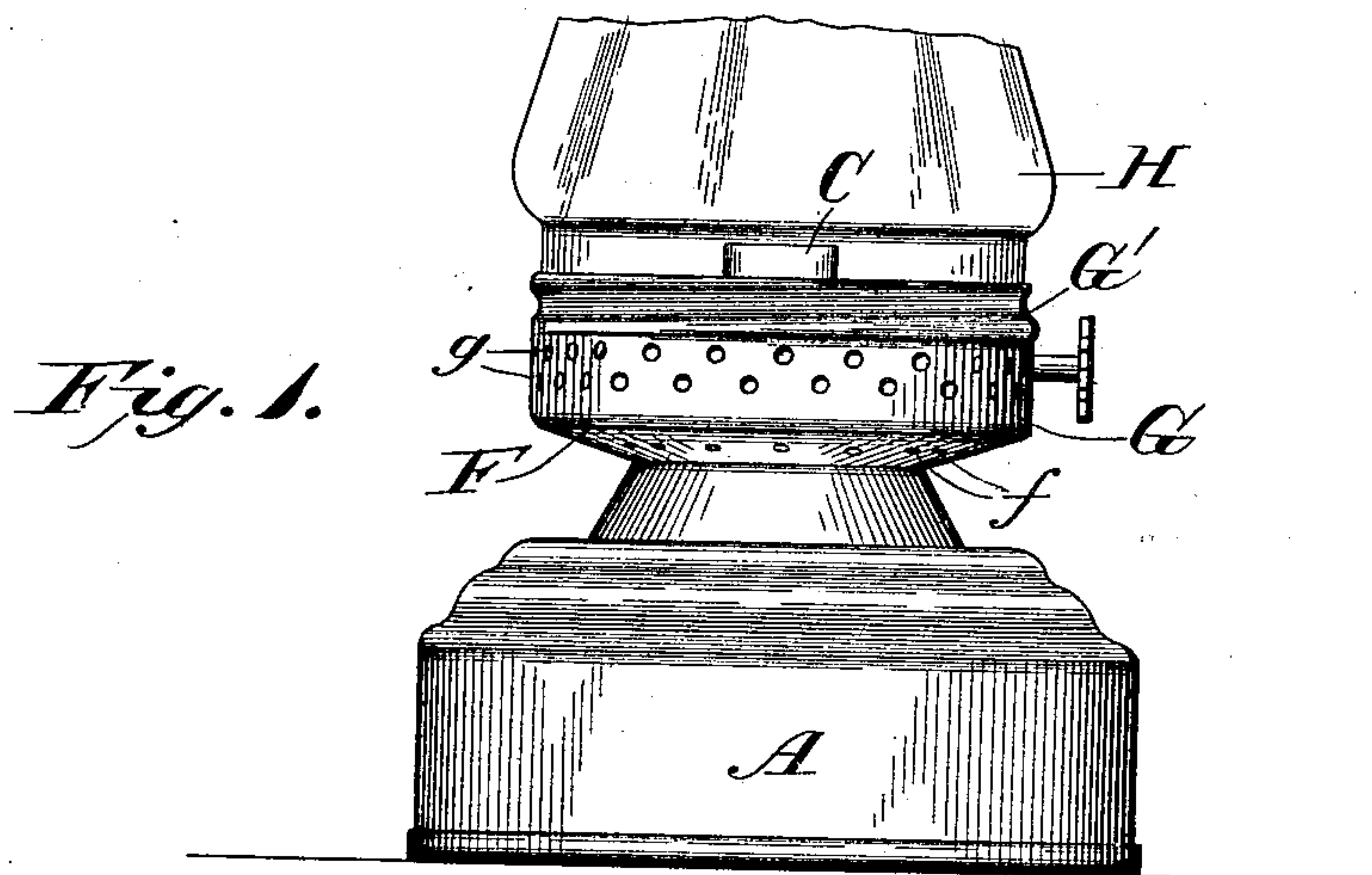
No. 682,134.

Patented Sept. 3, 1901.

G. T. BROWN.
LAMP BURNER.

(Application filed June 7, 1901.)

(No Model.)



Witnesses
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UNITED STATES PATENT OFFICE.

GEORGE T. BROWN, OF BALTIMORE, MARYLAND, ASSIGNOR OF ONE-HALF
TO JAMES D. BROWN, OF SAME PLACE.

LAMP-BURNER.

SPECIFICATION forming part of Letters Patent No. 682,134, dated September 3, 1901.

Application filed June 7, 1901. Serial No. 63,594. (No model.)

To all whom it may concern:

Be it known that I, GEORGE TUPPER BROWN, of Baltimore, in the State of Maryland, have invented certain new and useful Improvements in Lamp-Burners; and I hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, which form part of this specification.

10 This invention is an improvement in lamp-burners, and its object is to produce a combined burner and collar by utilizing the collar both as a support and casing for the wick-tube and wick-raiser and also as the support
15 for the globe or chimney.

A further object of the invention is to enable the lamp-founts to be formed with a screw-threaded nipple and make the burner with an engaging-thread, so that the burner
20 can be screwed directly onto the fount without having to provide the latter with a collar or nipple, as has been heretofore necessary, thus simplifying and cheapening the construction of parts and at the same time realizing material advantages, as will be hereinafter explained.

The invention briefly consists in the novel combined burner and collar hereinafter described and claimed, and illustrated in the accompanying drawings, in which—
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Figure 1 is a side elevation of one of my improved burners as applied to a fount and chimney, the construction illustrated in this figure being particularly adapted for lanterns. Fig. 2 is a vertical section through Fig. 1. Fig. 3 is a plan view of the burner, and Fig. 4 is a sectional view of a slight modification thereof.
35

The fount A of the lamp is provided with a screw-threaded nipple *a*, which is preferably formed integral with the fount by stamping, blowing, molding, &c., thereby doing away with the necessity for attaching a collar to the fount.
40

45 The burner consists of a threaded and inverted cap B, which is adapted to screw onto and over nipple *a*, as shown. Through the top *b* of this cap passes the wick-tube C, which is supported thereby, and the wick-raiser D
50 is fastened on a rod E, which transfixes the

cap B, and is journaled in openings in opposite sides of the cap B just below top *b*.

It will be observed that the cap B and described connected parts form both a complete burner and also a collar to protect the
55 fount-nipple from injury. This device enables the brass collars ordinarily required and attached to the founts to be dispensed with, and as the nipple is made with a thread it can be cheaply and readily formed integral
60 with the fount in the process of making the latter. The metal collars heretofore used increase the cost of manufacture and weaken the lamps, as their use necessarily makes two joints between burner and fount, whereas my
65 improved burner and collar makes but one joint between burner and fount.

The burner may be constructed to support a globe or chimney, and, as shown in Fig. 1, an annular plate F is attached to the bottom
70 of cap B, said plate being preferably perforated, as at *f*, and from the periphery of plate F rises an annular flange G, which extends to or above the level of top *b* and is preferably perforated, as shown at *g*. Plate F or flange
75 G may be formed in any suitable way or provided with any suitable means to support a globe or chimney above and concentric to the burner, and, as shown in Fig. 1, part G is provided with a screw-thread G', which is en-
80 gaged by a corresponding thread H' on the lower end of the lantern-globe H.

As shown in Fig. 4, the plate may be attached to the upper part of part B, as shown at F', and may be provided with fingers *f'* or
85 any other suitable chimney or globe retaining devices. In either case, however, it will be observed that the cap B forms both the support for the wick-tube and wick-raiser and also the casing for the same, and also the
90 collar for engaging or securing the burner on the nipple of the fount.

In the complete burner (shown in Figs. 1 and 2) it will be observed that the fount-engaging portion is actually within the body of
95 the burner, so that the latter might be termed a "recessed" burner, thereby bringing the burner nearer to the fount and making a very simple, strong, and desirable construction for lamps, lanterns, &c.

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

- 5 1. In a burner, the combination of the threaded collar, the wick-tube depending therein, and the wick-raiser rod journaled in the collar; with the chimney or globe supporting devices exterior to and attached to said collar, substantially as described.
- 10 2. In a burner the combination of the threaded collar having a closed upper end, the wick-tube depending through the top of said collar, the wick-raiser, and the supporting-rod thereof transfixing said collar and
15 journaled in the opposite sides thereof; with the chimney or globe supporting devices exterior to and attached to the collar substantially as described.
- 20 3. In a burner, the combination of the fount having a threaded nipple, the burner having a threaded collar adapted to screw on the nipple, a wick-guide suspended in said collar, a wick-raiser, and a wick-raiser-supporting rod

journaled in the opposite walls of the collar; with the chimney or globe supporting devices 25 exterior to but attached to the collar substantially as described.

4. The herein-described collar and burner, comprising an internally-threaded collar, an annular plate surrounding and attached to 30 said collar, and an annular flange rising from said plate adapted to support a globe or chimney; a wick-tube supported by and depending into the collar, a wick-raiser rod extending through and journaled in said collar, and 35 a wick-raiser on said rod also within the collar, all substantially as and for the purpose set forth.

In testimony that I claim the foregoing as my own I affix my signature in presence of 40 two witnesses.

GEORGE T. BROWN.

In presence of—

ARTHUR E. DOWELL,
JAMES R. MANSFIELD.