

No. 747,622.

PATENTED DEC. 22, 1903.

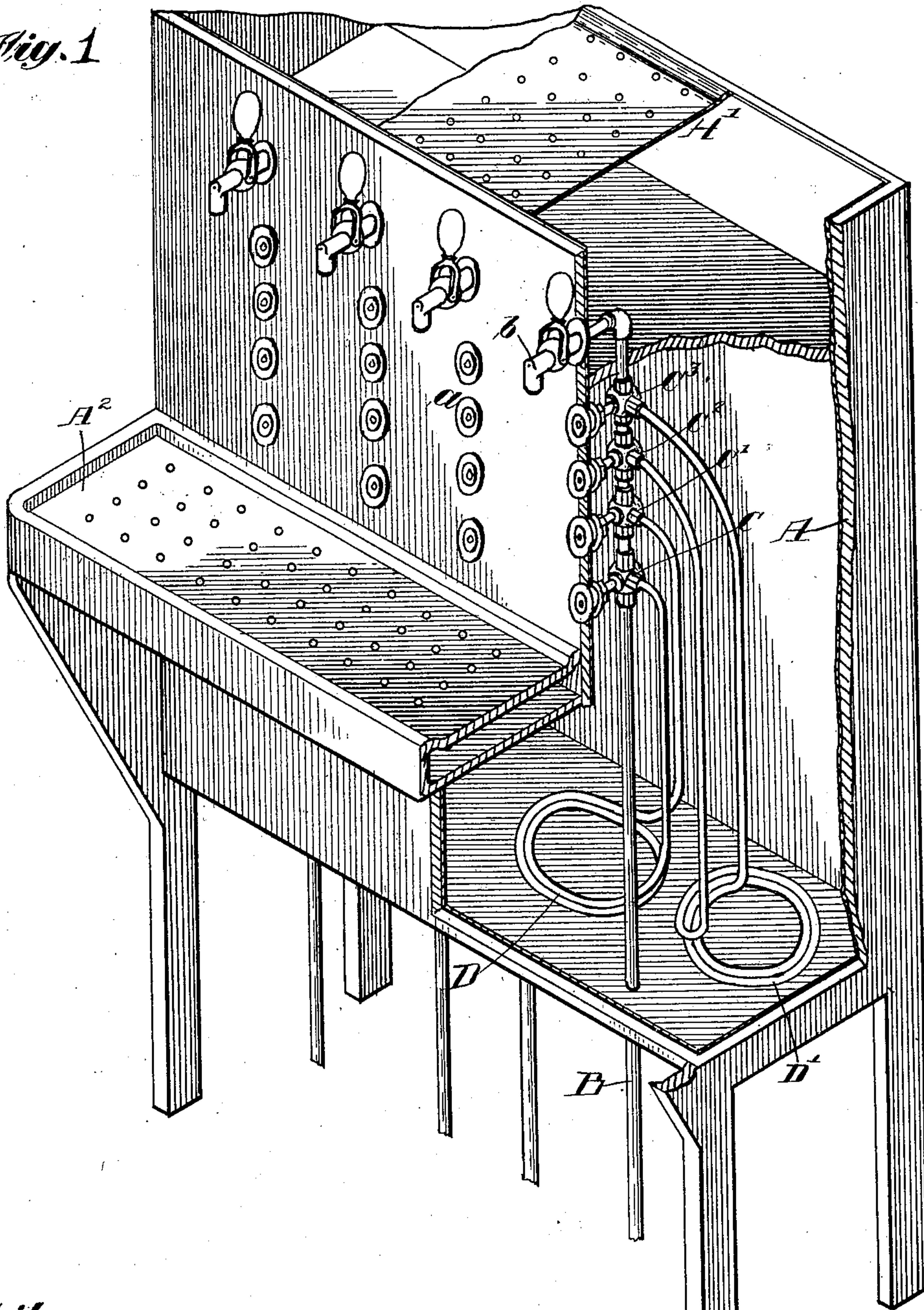
G. T. J. MAMEROW.  
BEER COOLER.

APPLICATION FILED JULY 11, 1902.

NO MODEL.

2 SHEETS—SHEET 1.

*Fig. 1*



*Witnesses:*

*Jesse H. Angell.*

*Alfred C. Bell*

*Inventor:*

*By George T. J. Mamerow*  
*Charles H. Rice, atty.*

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2 SHEETS—SHEET 2.

NO MODEL.

Fig. 2.

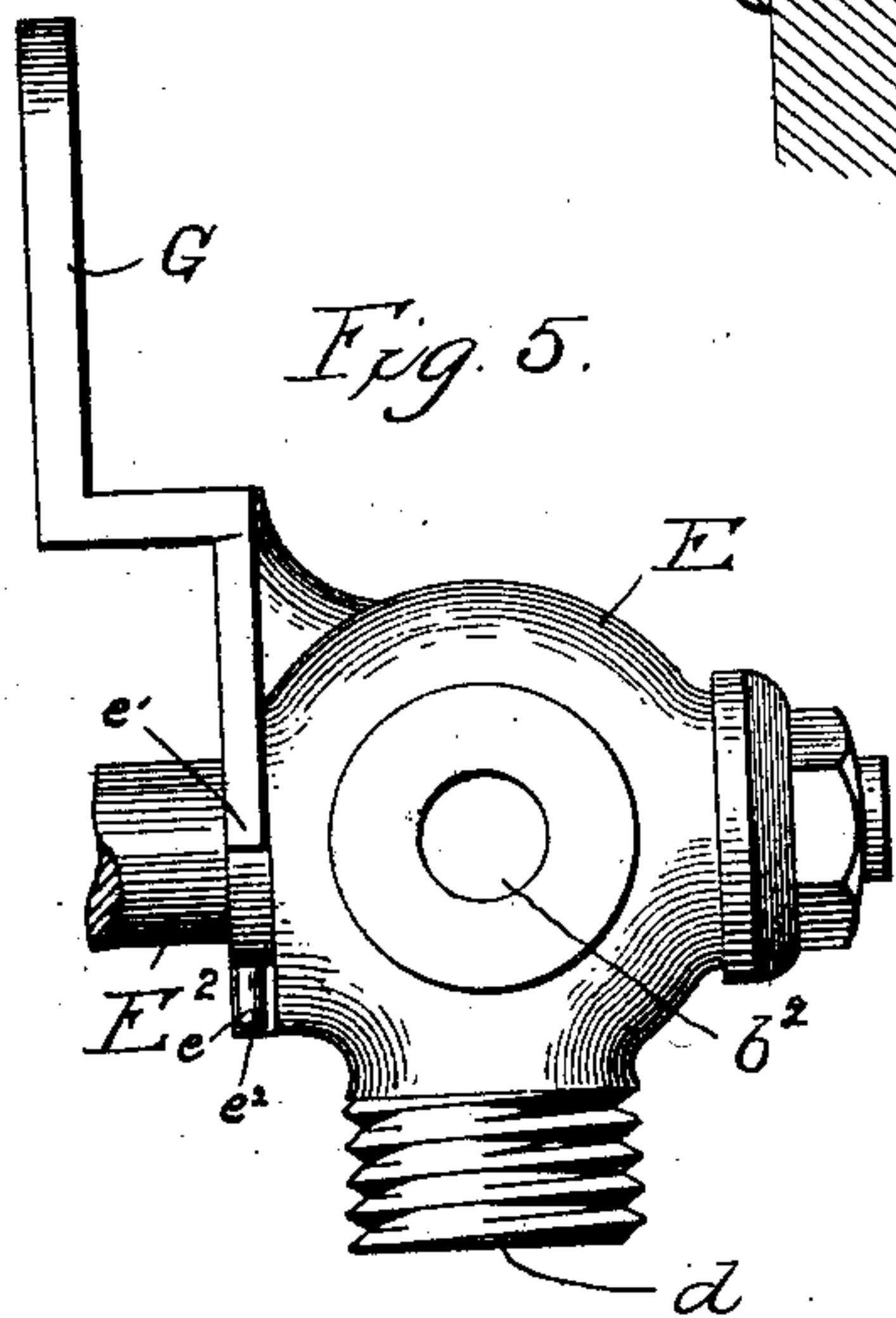
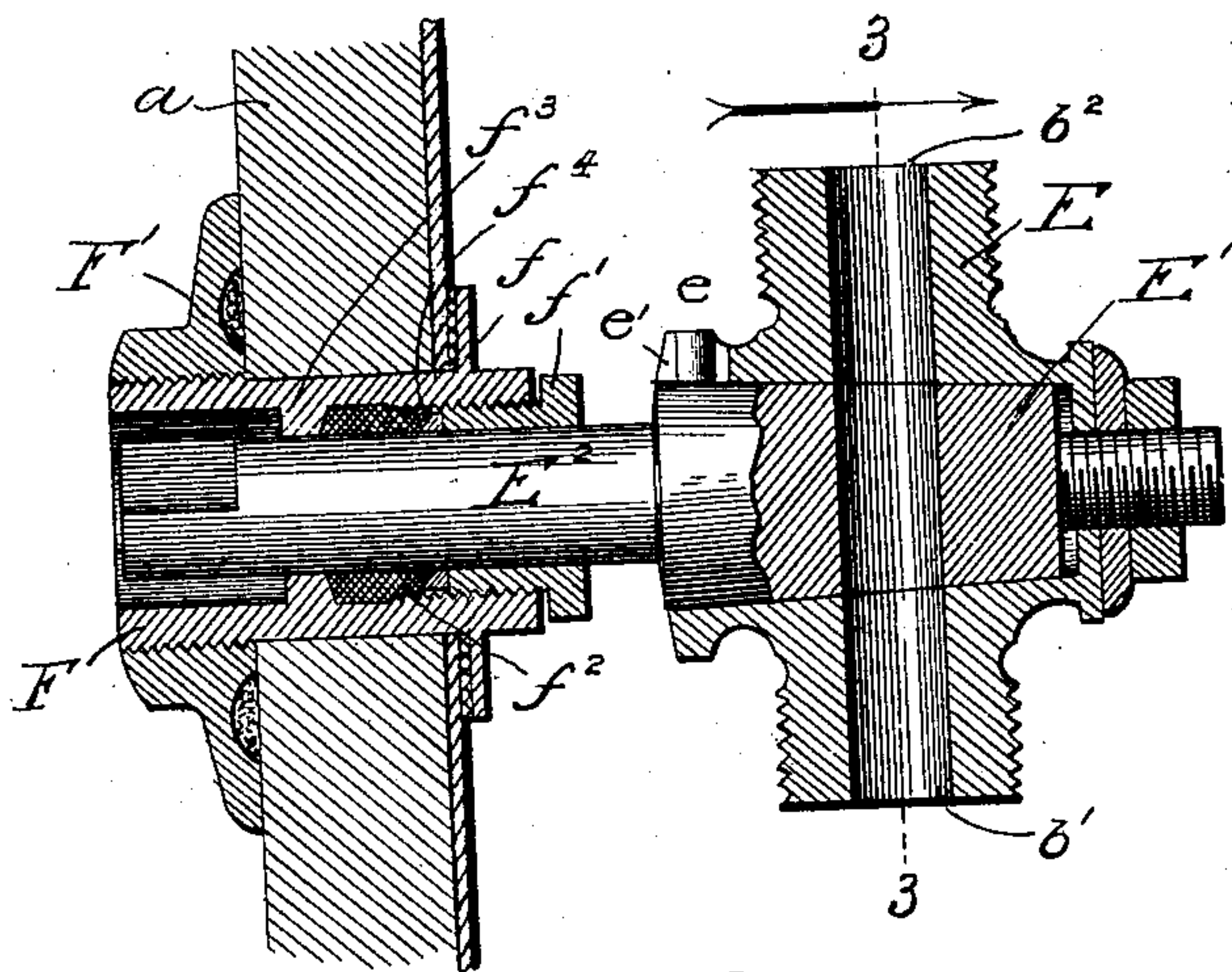


Fig. 3.

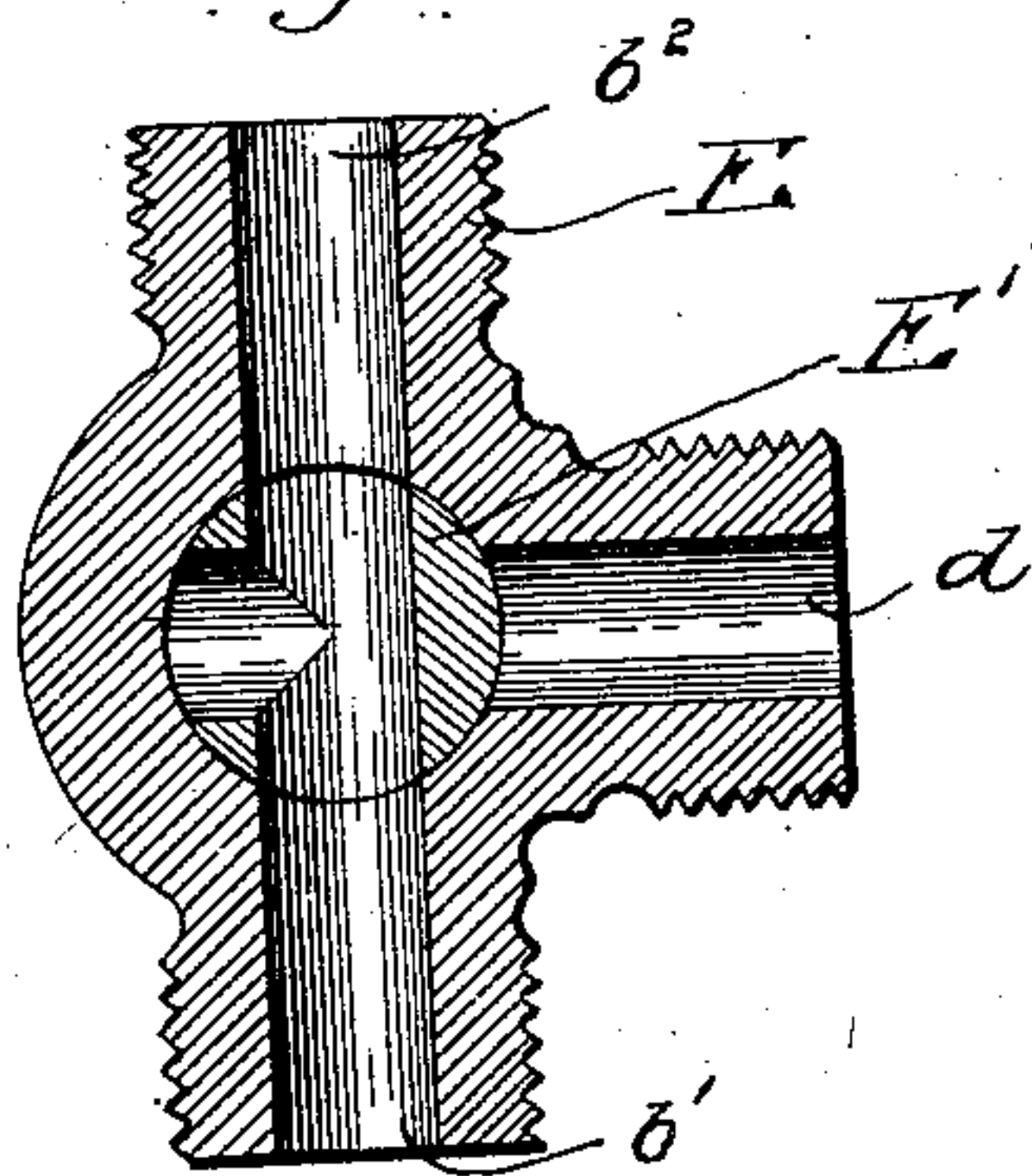
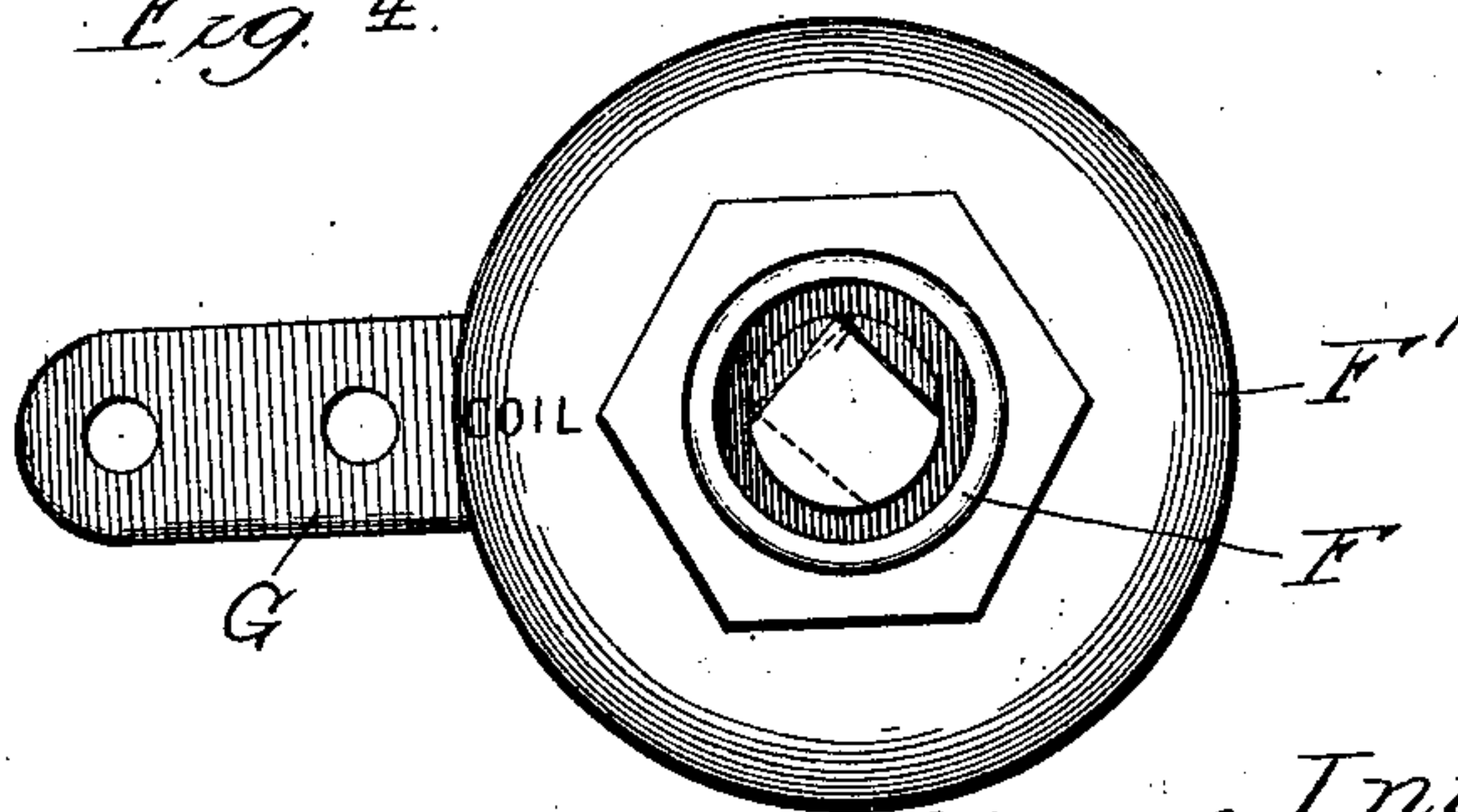


Fig. 4.



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Inventor:  
George G. J. Mamerow  
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Att'y.



# UNITED STATES PATENT OFFICE.

GEORGE T. J. MAMEROW, OF CHICAGO, ILLINOIS.

## BEER-COOLER.

SPECIFICATION forming part of Letters Patent No. 747,622, dated December 22, 1903.

Application filed July 11, 1902. Serial No. 115,132. (No model.)

*To all whom it may concern:*

Be it known that I, GEORGE T. J. MAMEROW, a citizen of the United States, and a resident of the city of Chicago, county of Cook, and State of Illinois, have invented certain new and useful Improvements in Beer-Coolers; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

This invention relates to a cooling device, and is shown embodied in a cooler for beer or other beverages.

Heretofore it has been common to provide coolers with a plurality of coils of pipe through which the beer or other beverage is drawn, and it has been the practice to provide open or unvalved connection between the coils and the supply-pipe, thus making it necessary for the beverage to traverse all the coils. This is objectionable, not only for the reason that during a considerable portion of the year the coils are not required at all, but also for the reason that if the fluid remains in the coils for any considerable period of time it becomes more or less stale or flat, necessitating more or less waste.

The object of this invention is to provide simple and readily-operated means whereby the beverage may be delivered direct to the faucet without passing through the coils at all or may be diverted to pass through one or all of said coils, as preferred by the attendant.

My invention also embraces improved connections between the coil and supply-pipe.

The invention consists in the matters hereinafter described, and more fully pointed out and defined in the appended claims.

In the drawings, Figure 1 is a perspective view, partly broken away, of a device embodying my invention. Fig. 2 is a vertical section of one of the cocks. Fig. 3 is a similar section taken on line 3 3 of Fig. 2. Fig. 4 is a front view of the cock. Fig. 5 is a top plan view of the cock with the stem broken away.

As shown in said drawings, the cooler as shown comprises a vertical tank A and ice-tray A', located above the tank.

B indicates a supply-pipe extending vertically downward through the tank A to a source of supply in the usual manner. At its upper end said supply-pipe extends into the ice-tray A' and outwardly through the front wall  $\alpha$  of the cooler and is provided at its extremity with the faucet  $b$  of any desired kind.

Connected in the supply-pipe B are a plurality of three-way cocks or valves, (indicated, respectively, by C, C', C<sup>2</sup>, and C<sup>3</sup>.) Coils of pipe D and D' are connected, respectively, with the cocks C, C', C<sup>2</sup>, and C<sup>3</sup>, as shown in Fig. 1. As shown, a perforated drip-board A<sup>2</sup> is provided below the faucets in a familiar manner. Said cocks each comprise a casing E, adapted for connection in the vertical pipe B and with one end of the coil D or D' and having communicating passages  $b'$   $b^2$   $d$  therein opening into the pipe B and the coil. A conical aperture is provided in the casing in which a rotative close-fitting conical closure E' is secured, having passages therein to correspond with the passages in the casing. Said closure by a partial rotation is adapted to close any one of the passages in said casing in a familiar manner. Said closure is provided with a pin  $e$ , forming a stop which extends therefrom into position to engage shoulders  $e'$   $e^2$ , which are so positioned on the casing that when the stop  $e$  engages the shoulder  $e'$  the closure is positioned to permit fluid to flow through the passages  $b'$   $b^2$  and when it engages the shoulder  $e^2$  opens the passages  $b'$   $d$  to the flow. The stem E<sup>2</sup> of each cock extends outwardly through the front wall  $\alpha$  of the cooler, as shown in Fig. 2, and a sleeve F, which fits closely in the aperture in said wall, engages around the stem and is recessed at each end—at its outer end to permit a wrench to engage the stem and at its inner end to receive the packing. A sleeved nut  $f'$  engages in said sleeve, acting to jam the packing around the stem and forming a gland. If preferred, a follower-ring having an inclined or beveled face may be provided in the gland, as shown in Fig. 2. A flange  $f$  is provided at the inner end of the sleeve F, which engages against the inner wall of the tank and forms a close joint therewith. The outer end of the sleeve F is threaded, and a flanged nut F' is engaged thereon to afford a finish and acts to draw



the flange *f* into positive contact with the inner surface of the wall *a*. The outer end of the stem is so shaped that the wrench or key when applied thereto serves as a pointer to indicate the adjustment of the valve, and the word "Coil" or other mark or character is marked on the flanged nut *F'* or on the front of the tank to indicate the desired point of adjustment. As shown, a laterally-directed integral arm *G* is provided on the casing and is adapted to engage against and to be soldered or otherwise permanently secured to the inner lining of the side wall, thereby acting to partly support the pipes.

The operation is as follows: During cold weather or whenever artificial refrigeration may not be needed the cocks are adjusted to provide a straight passage from the supply through pipes *B* to the faucets *b* and the openings into the coils are closed. When it is desirable to use artificial refrigeration, the cocks *C C'* or *C<sup>2</sup> C<sup>3</sup>* are opened, permitting the fluid to flow through one of the coils. During summer weather a plurality of coils may be required and all the cocks may be opened. It will thus be seen that the flow of the fluid is at all times under the control of the attendant, enabling him to regulate the temperature by means of said cocks. Obviously any desired number of faucets may be connected in a horizontal branch connecting in a single supply-pipe, or in case different temperatures of fluid are to be served a plurality of supply-pipes may be used, each provided with its coil or coils and regulating-cocks. This enables different temperatures of beverages to be served from the cooler by opening the connection with all the coils in one of the pipes and to a less number in others.

Obviously the form and arrangement of parts may be varied, and my invention is adaptable to many uses and purposes not herein shown, and I do not desire to be limited to the exact construction of cock or faucet or the form or arrangement of tanks herein shown and described, inasmuch as many details of construction may be varied with-

out departing from the principles of this invention.

I claim as my invention—

1. A beer-cooler comprising the combination with a tank and an ice-tray, of a supply-pipe extending through the tank, coils connected therein, three-way valves connected in said pipe forming the connections with each coil, said valves each comprising a casing having passages therethrough registering with the pipe and a coil end, a rotatable conical plug or closure in the casing having passages corresponding with those in the casing, a stop to determine the adjustment of the closure, a valve-stem on the closure extending through the wall of the cooler, a gland on said stem closing the passage through said wall and a collar surrounding and extending beyond the outer end of the stem and marked to indicate the adjustment of the valve.

2. A beer-cooler comprising a receptacle or tank adapted to contain a refrigerant, a supply-pipe passing upwardly therethrough, a plurality of coils connected in said pipe by three-way valves, each of said valves comprising a casing, a laterally-directed arm thereon adapted to afford connection with the side of the tank, a valve-closure, an elongated stem thereon extending through the side wall of the tank, a sleeve fitting closely in the aperture of said side wall and inclosing the stem and providing a tight joint with said side wall, and a gland in said sleeve surrounding said stem, said stem at its outer end being shaped to indicate the adjustment of the valve and a collar extending beyond the end of the stem and having an indicating mark, character or word thereon to indicate the adjustments of the valve.

In testimony whereof I have hereunto subscribed my name in the presence of two subscribing witnesses.

GEORGE T. J. MAMEROW.

Witnesses:

C. W. HILLS,  
A. C. ODELL.