

(No Model.)

2 Sheets—Sheet 1

F. L. KOLLBERG.  
MACHINE FOR FLANGING BOILER HEADS.

No. 426,505.

Patented Apr. 29, 1890.

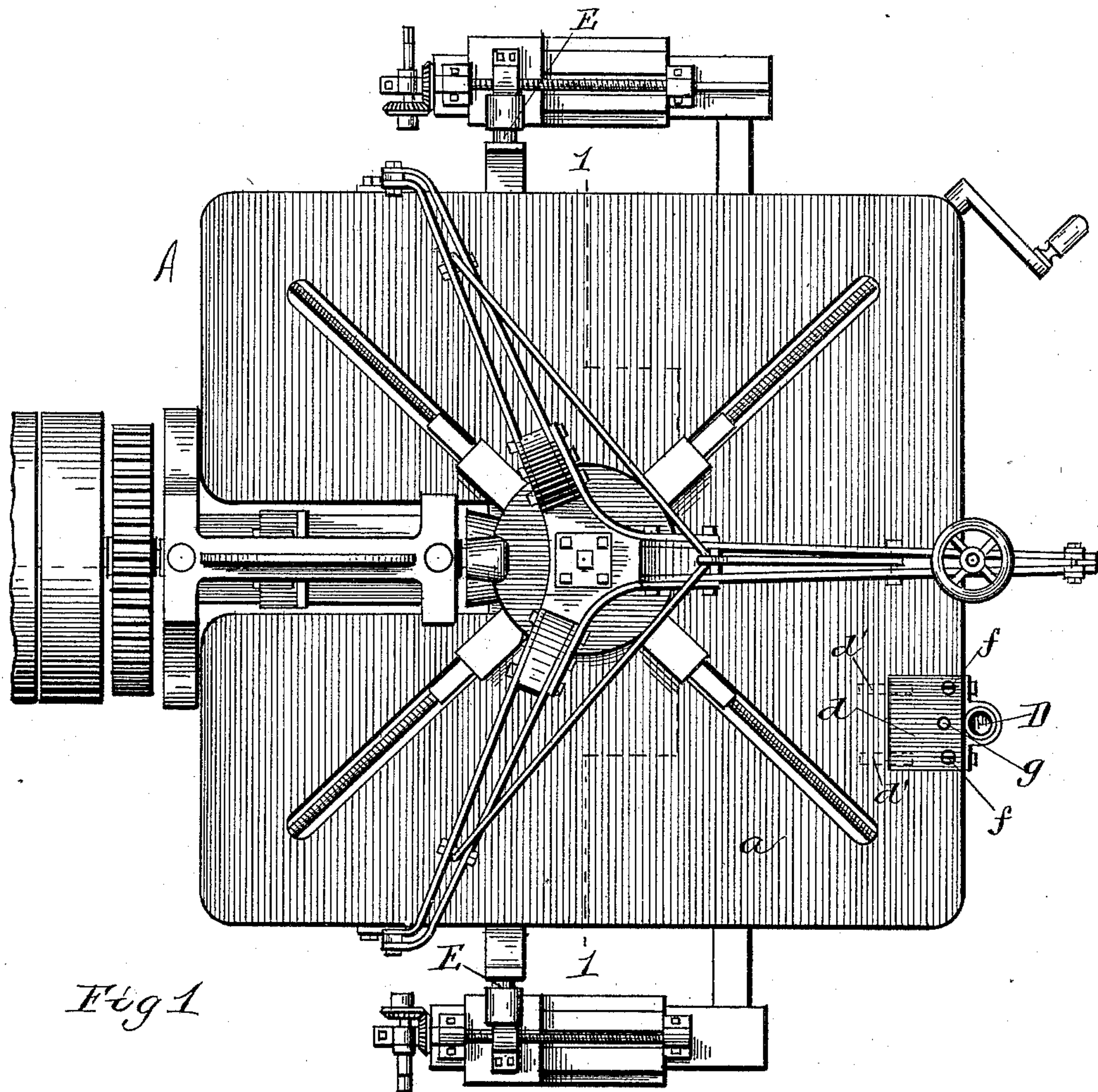
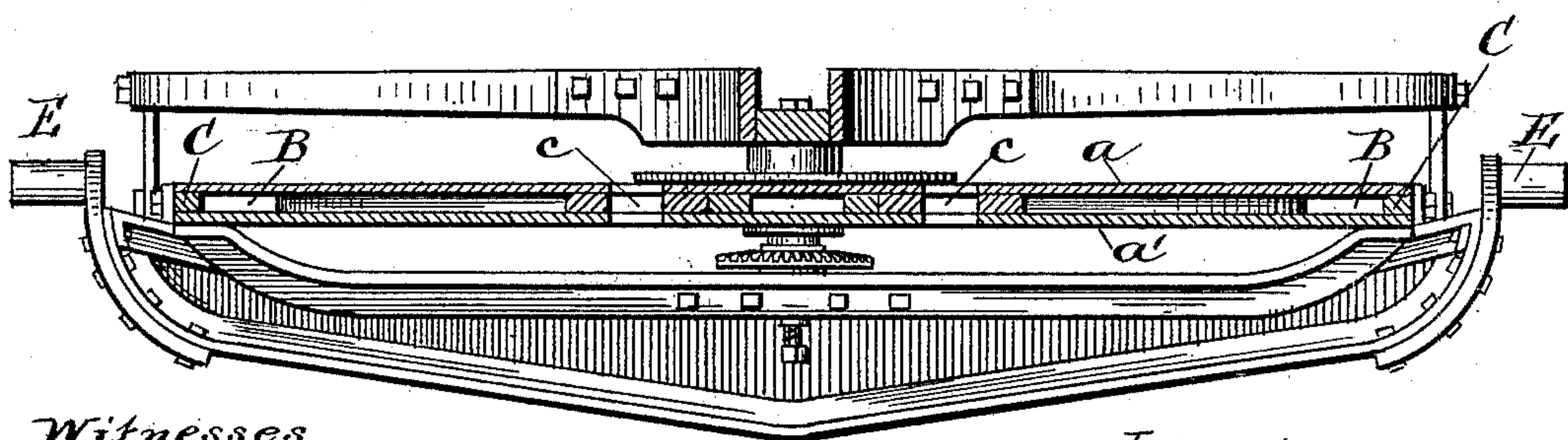


Fig 1

Fig 2



Witnesses  
W. C. Corlies  
Abner J. Wood

Inventor  
Fredrick L. Kollberg  
By Gilson & Benjamin  
Attys



(No Model.)

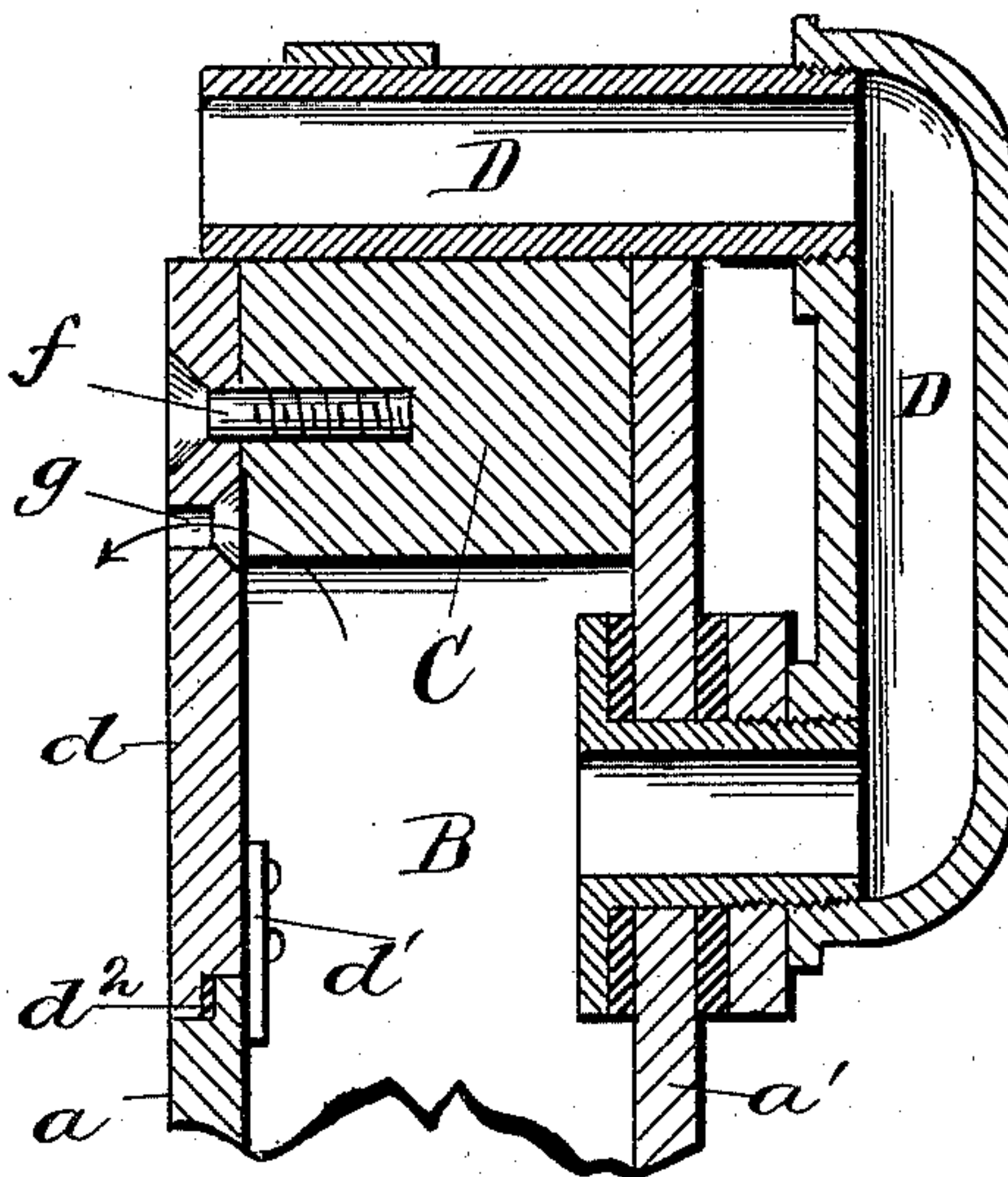
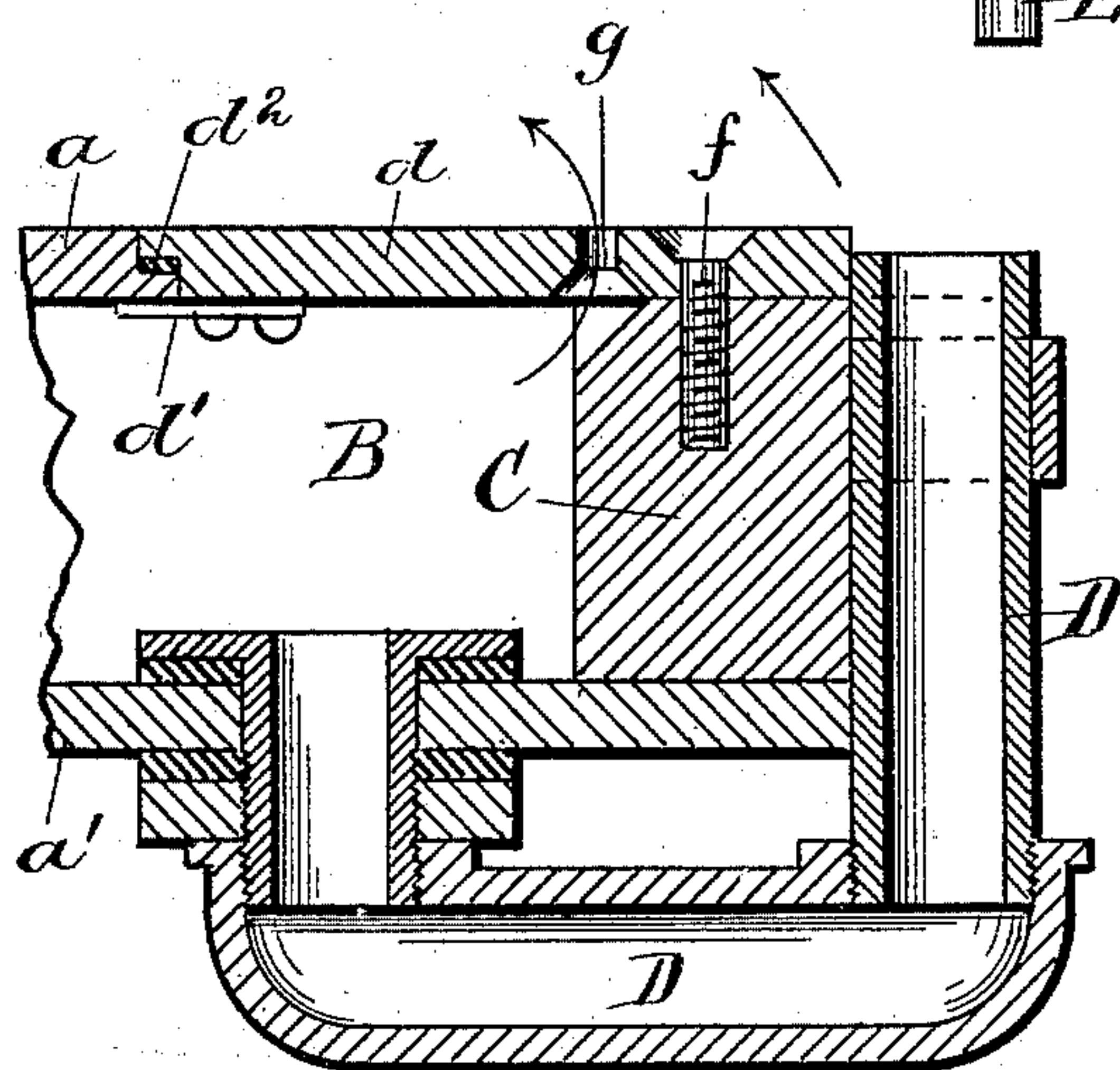
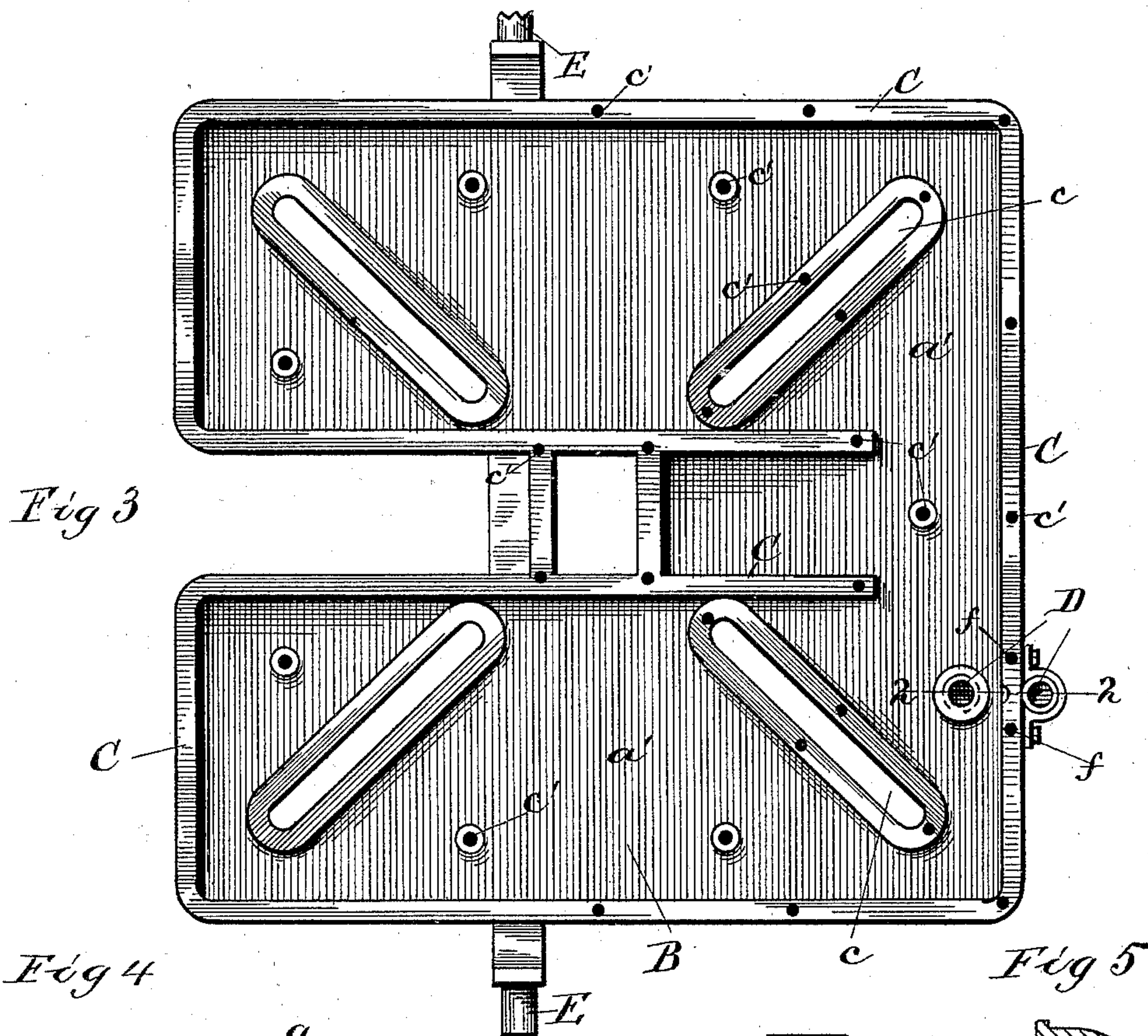
2 Sheets—Sheet 2.

F. L. KOLLBERG.

# MACHINE FOR FLANGING BOILER HEADS.

No. 426,505.

Patented Apr. 29, 1890.



*Witnesses*

W. C. Coolidge  
Jesse J. Wood

*Inventor*

Fredrick L. Kollberg

By Ellison Benjamin  
A1-17/3



# UNITED STATES PATENT OFFICE.

FREDRICK L. KOLLBERG, OF CHICAGO, ILLINOIS, ASSIGNOR TO JOSEPH BEE,  
OF SAME PLACE.

## MACHINE FOR FLANGING BOILER-HEADS.

SPECIFICATION forming part of Letters Patent No. 426,505, dated April 29, 1890.

Application filed January 20, 1890. Serial No. 337,534. (No model.)

*To all whom it may concern:*

Be it known that I, FREDRICK L. KOLLBERG, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Machines for Flanging Boiler-Heads; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

My invention relates to machines for flanging boiler-heads; and its object is to provide such machines with a table having a water-compartment for keeping it cool.

In the accompanying drawings, Figure 1 shows a plan view of a flanging-machine having my improved table. Fig. 2 is a cross-section through the broken line 1 1. Fig. 3 shows the table with the upper plate removed. Fig. 4 is a vertical section of a portion of the table through the line 2 2, showing the means for filling the water-compartment. Fig. 5 is a similar view showing the position of the filling device when the table is vertical.

It is found in practice that the tables of machines of the class named are liable to warp when continuously used, and as a result the boiler-heads may be distorted. This difficulty has been met heretofore by throwing water upon the table when it becomes heated; but this method is not only crude, but very likely to result in damage to the table from cracking.

In my invention the table A, which swings upon suitable bearings E, consists of an upper plate  $\alpha$  and a lower plate  $\alpha'$ , inclosing the water-space B, the two plates being secured together by the frame C and frames  $c$ , conforming to the contour of the table and the openings in it, and by bolts, as  $c'$ , passing through the plates and the frames. The joints may be made water-tight by the use of any desired form of packing. I would prefer to call them.

D represents a pipe for filling the water-chamber. The precise form of the filling device is not material. It must be located at

the forward end of the table, as that end is elevated in flanging. It should also be so near the end, if the orifice is in the upper plate of the table, that the chamber may be full without danger of overflow when the table is elevated. Otherwise the water will not touch the upper plate when the table is horizontal, and much of the advantage of the invention will be lost.

As shown, the filling device consists of the pipe D, entering the lower plate and being suitably packed. This pipe passes to the front edge of the table, and thence to the level of the upper surface, its outer end being open. The removable section of the plate  $\alpha$  is held to its seat by the straps  $d'$   $d'$ , the piece  $d$  and plate  $\alpha$  being rabbeted, as shown at  $d^2$ , and by the screws  $f$   $f$ .

A vent for the escape of steam is placed at the front edge of the table, as shown at  $g$ . Similar vents may be located at other points on the front edge of the table.

Should it be desired to locate the filling device elsewhere than at the front of the table, it must be provided with a suitable closure to prevent leakage when the table is tilted.

I claim—

1. In a boiler-head-flanging machine, the combination of the flanging-rollers and their supporting-arms, rotating clamps, and a tilting table carrying the same, consisting of an upper and lower plate united by frames to form a water-compartment, substantially as described, and for the purpose set forth.

2. A boiler-head-flanging machine having a tilting supporting-table consisting of an upper and lower plate, the intervening space being inclosed to form a water-compartment, in combination with a filling-tube extending from the interior of the compartment beyond the side of the table, adapted to be raised and terminating in the plane of the upper plate of the table, and with a steam-vent, substantially as described, and for the purpose set forth.

In testimony whereof I affix my signature in presence of two witnesses.

FREDRICK L. KOLLBERG.

Witnesses:

CHARLES HOLBECH,  
HENRY A. GATES.