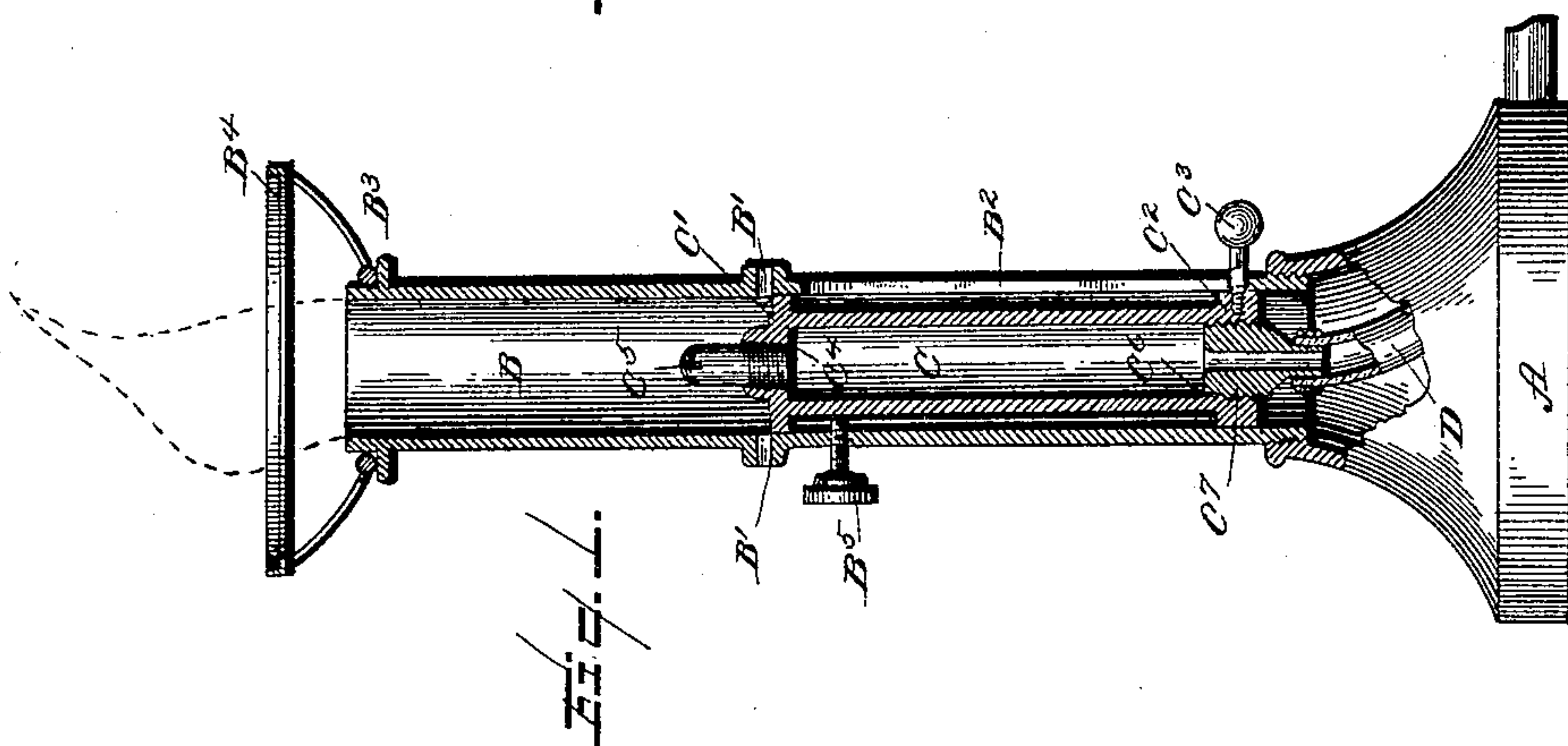
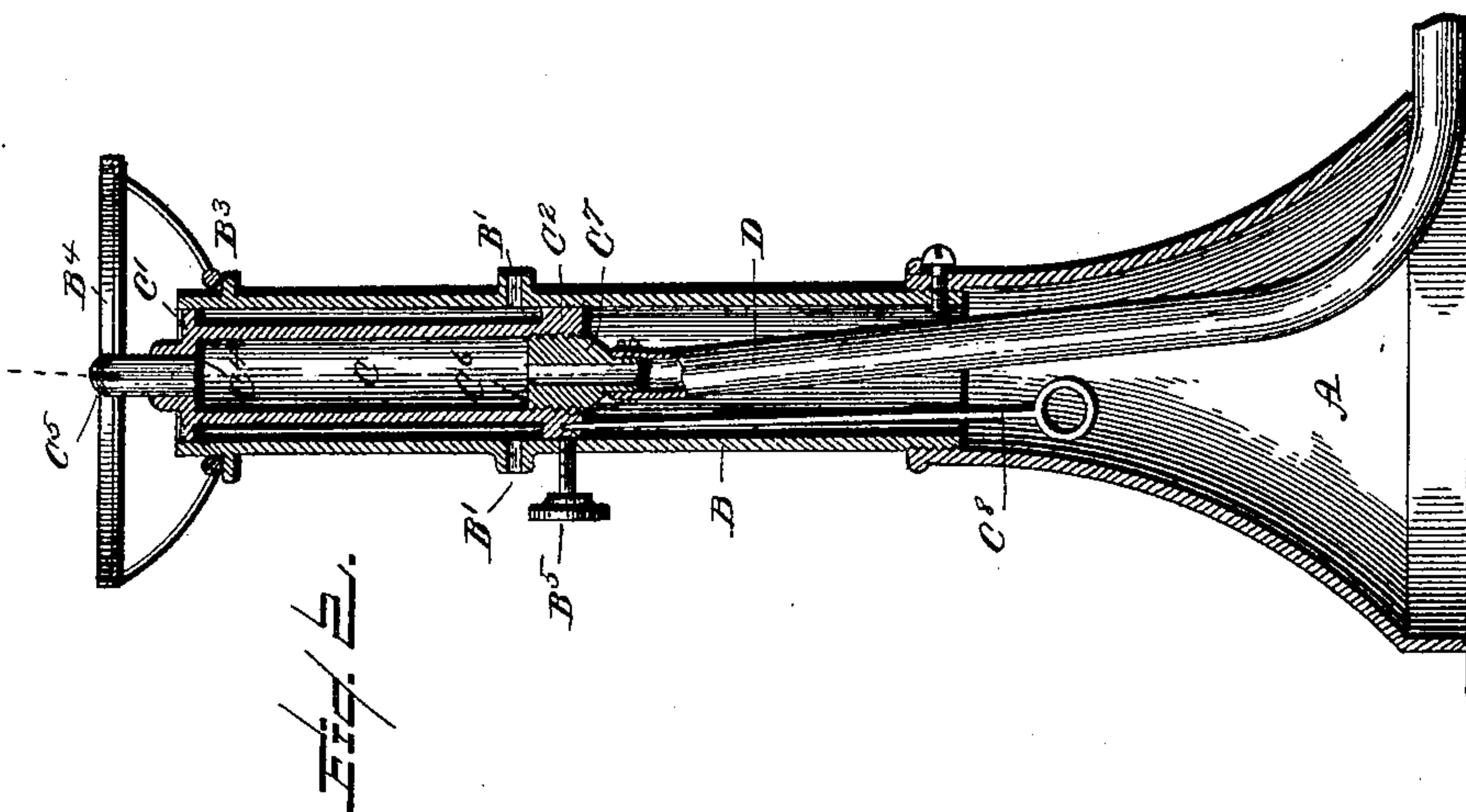
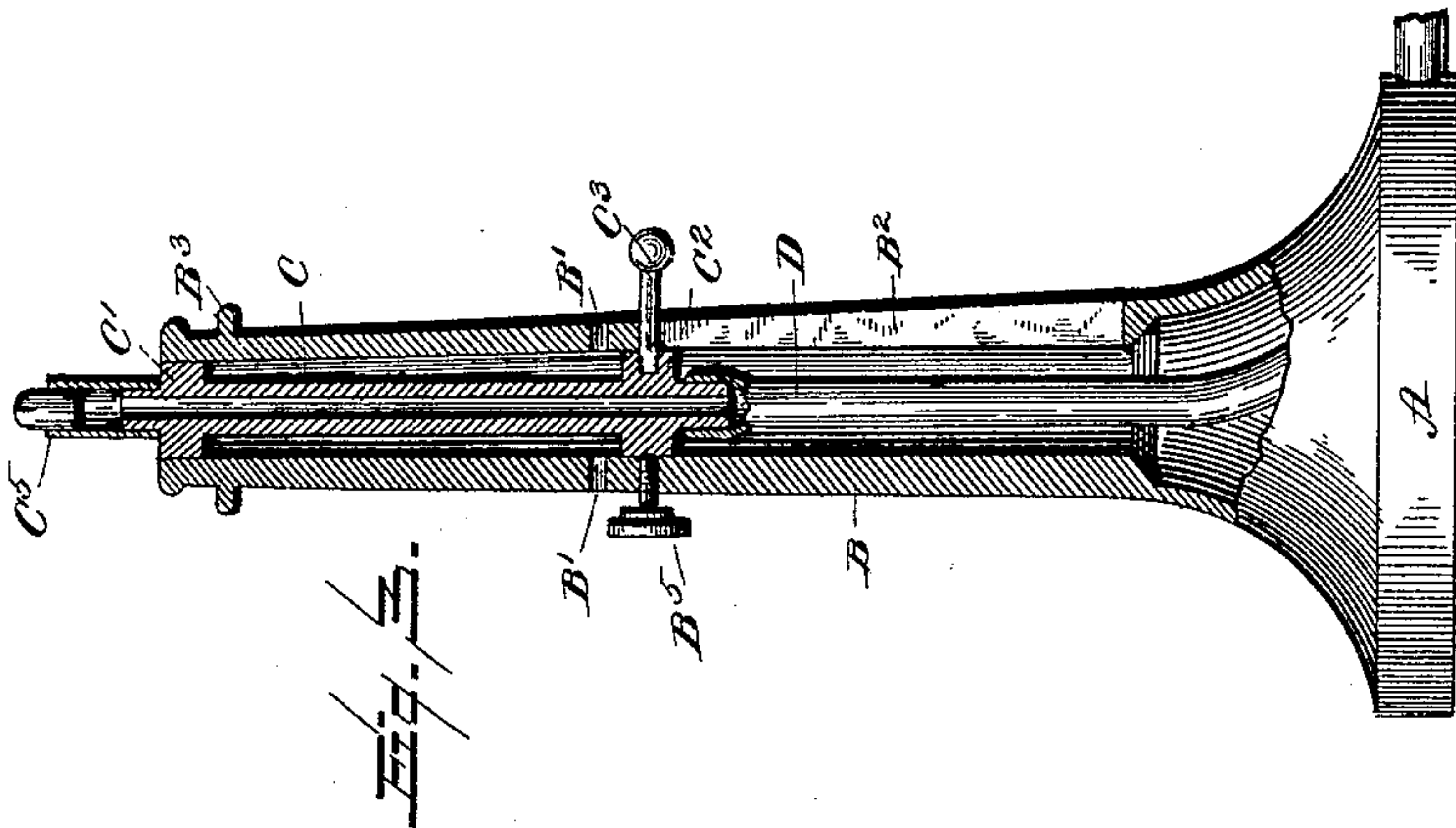


(No Model.)

E. S. RICH.
PORTABLE GAS STAND.

No. 390,706.

Patented Oct. 9, 1888.



Witnesses:

S. C. Hills,
W. D. Small.

Inventor:

Edwin S. Rich.
E. B. Stocking.
Attorneys.

UNITED STATES PATENT OFFICE.

EDWIN S. RICH, OF NEW YORK, N. Y.

PORTABLE GAS-STAND.

SPECIFICATION forming part of Letters Patent No. 390,706, dated October 9, 1888.

Application filed June 16, 1887. Serial No. 241,570. (No model.)

To all whom it may concern:

Be it known that I, EDWIN S. RICH, a citizen of the United States, and a resident of New York city, in the county of New York and State of New York, have invented certain new and useful Improvements in Portable Gas-Stands, of which the following is a specification.

This invention has relation to gas-burners, and has for its object to provide a burner that may be used for either heating or lighting purposes.

Further objects of the invention will hereinafter appear, and the novel features be particularly pointed out in the claims.

Referring to the drawings, Figure 1 is a vertical central section of a gas-burner constructed in accordance with my invention, the parts being in position adapted for heating. Fig. 2 is a similar view, the parts being in position for illuminating; and Fig. 3 is a modification hereinafter described.

Like letters indicate like parts in all the figures of the drawings.

A represents the base of the burner, upon which is mounted, by any suitable means, the tube B, which is provided with air openings or ports B' about midway its length and with a vertical slot, B². The tube B is also provided with an annular flange, B³, near its top, which projects outwardly and is designed to support a chimney-supporting collar, B⁴.

Within the tube B is mounted a sliding tube, C, which is smaller preferably than the bore of the tube B, and is provided with annular outwardly-projecting flanges C' C² at its top and bottom, respectively, which flanges are in sliding contact with the tube B and serve to support said tube in sliding position therein. From the flange C² of the collar C and passing through the slot B² of the tube B there projects a lug, C³, by which said tube may be raised and lowered within the tube B. A set-screw, B⁵, passes through the tube B and bears upon and serves to maintain the tube C in an adjusted position within the tube.

The upper end of the tube C is provided with a screw-threaded opening, C⁴, into which is screwed an ordinary burner-tip, C⁵. The lower end of the sliding tube C is also provided with a screw-threaded opening, C⁶, into which is inserted a threaded and centrally-perforated plug, C⁷, the lower end of which is tapered and designed to receive one end of a flexible or other tube, D, the opposite end of

which is connected with a chandelier, gas-bracket, or other source of supply of gas.

Taking the parts in the position shown in Fig. 1, the burner is adapted for heating purposes, the ring B⁴ serving to support a kettle, pot, or other vessel. When used as a heating device, the tube is in its lowest position, so that air may pass through the ports B' in the tube B and commingle with the gas, thus intensifying the heat generated. By raising the tube C to its upper position, (shown in Figs. 2 and 3,) the ports B' are closed, and pure gas for illuminating purposes is burned, the tube being held in the desired position through the medium of the set-screw B⁵.

If desired, the slot B² and lug C³ may be omitted, in which case a rod, C⁸, depends from the tube C into the base A, and by this means the tube may be raised and lowered.

As shown in Fig. 3, the tube B and its base A may be formed in a single piece, and, as shown in Figs. 1 and 2, said tube may be either screw-threaded into the base or held in place by means of ordinary screws or rivets.

Having described my invention and its operation, what I claim is—

1. In a combined heating and illuminating burner, the combination of an outer heating-tube and an internally-sliding burner-tube, the latter being adapted to be drawn within the former when used for heating purposes and projected therefrom when used for lighting purposes, substantially as specified.

2. A combined heating and illuminating burner comprising an outer heating tube having air-ports and an internal sliding illuminating-tube adapted to close said ports, substantially as specified.

3. The base A, having the tube B mounted thereon and provided with the air-ports B', in combination with the sliding collar C, mounted in said tube and provided with the burner C⁵ and plug C⁷, substantially as specified.

4. The tube B, having ports B', in combination with the sliding tube C, having flanges C' C², removable tip C⁵, removable perforated lugs C⁷, and the pipe D, substantially as specified.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of two witnesses, this 15th day of June, 1887.

Witnesses: EDWIN S. RICH.
SAML. T. BARNES,
JAMES H. GRUNDY.