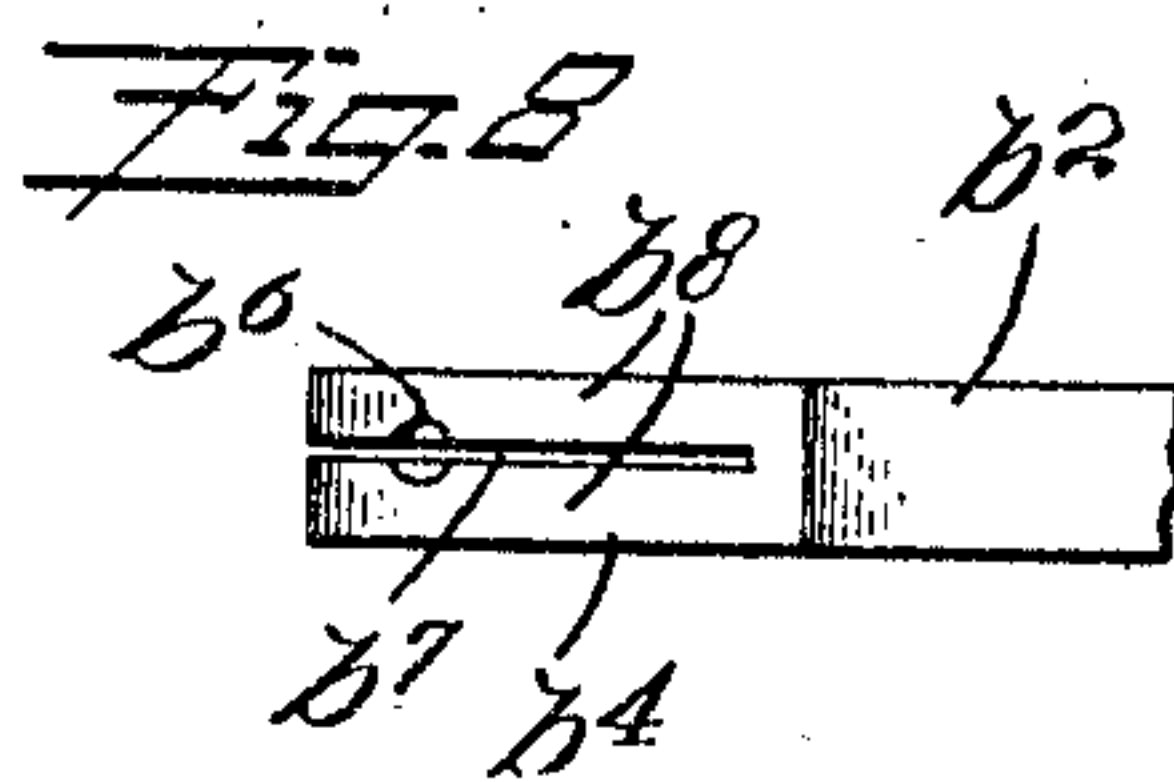
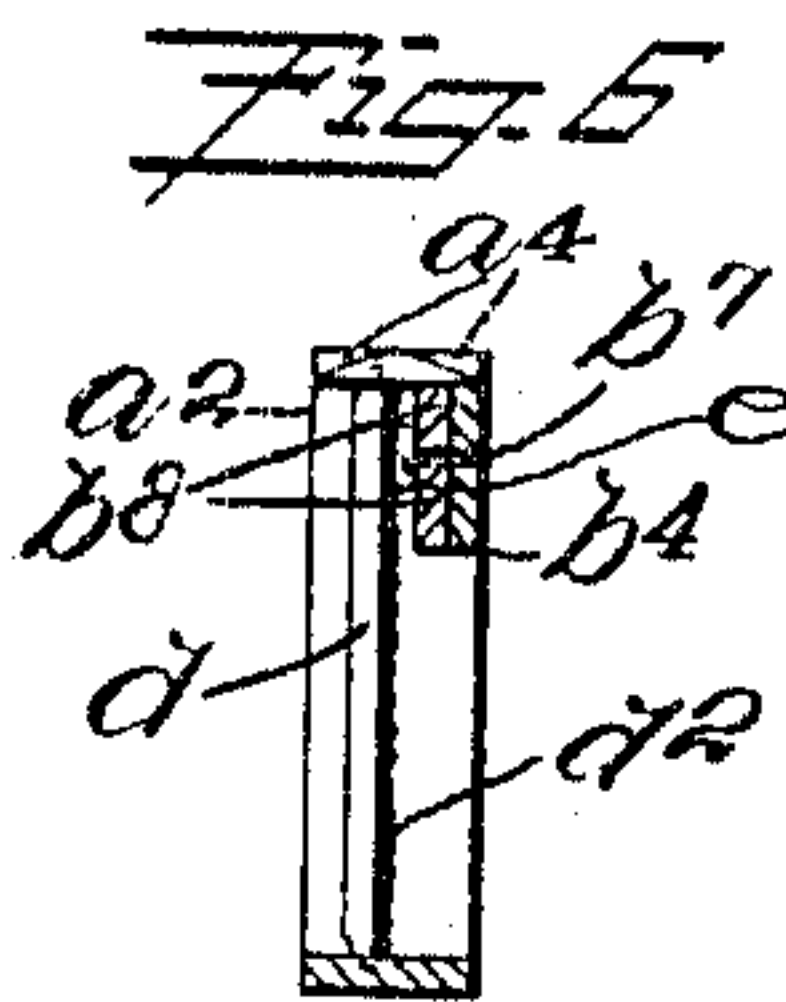
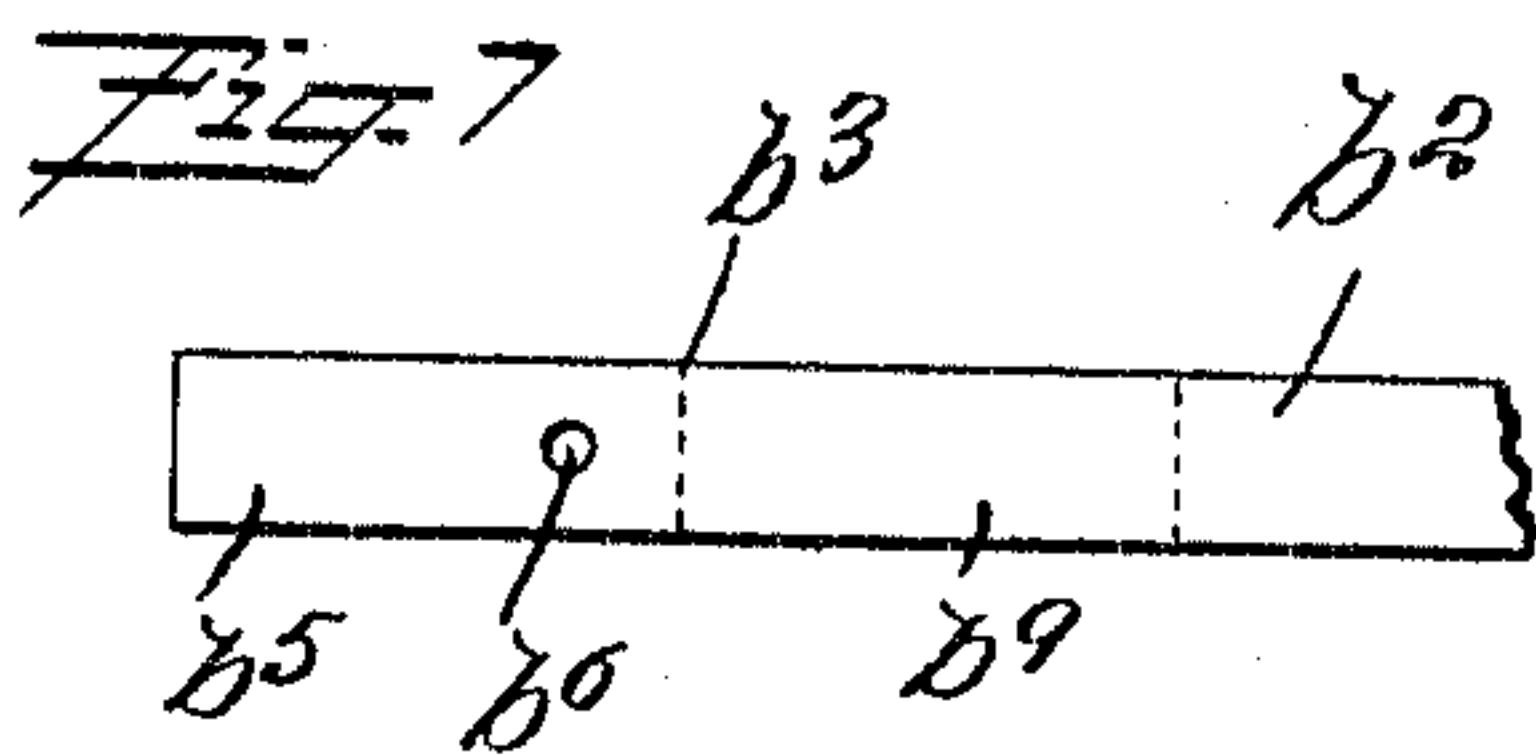
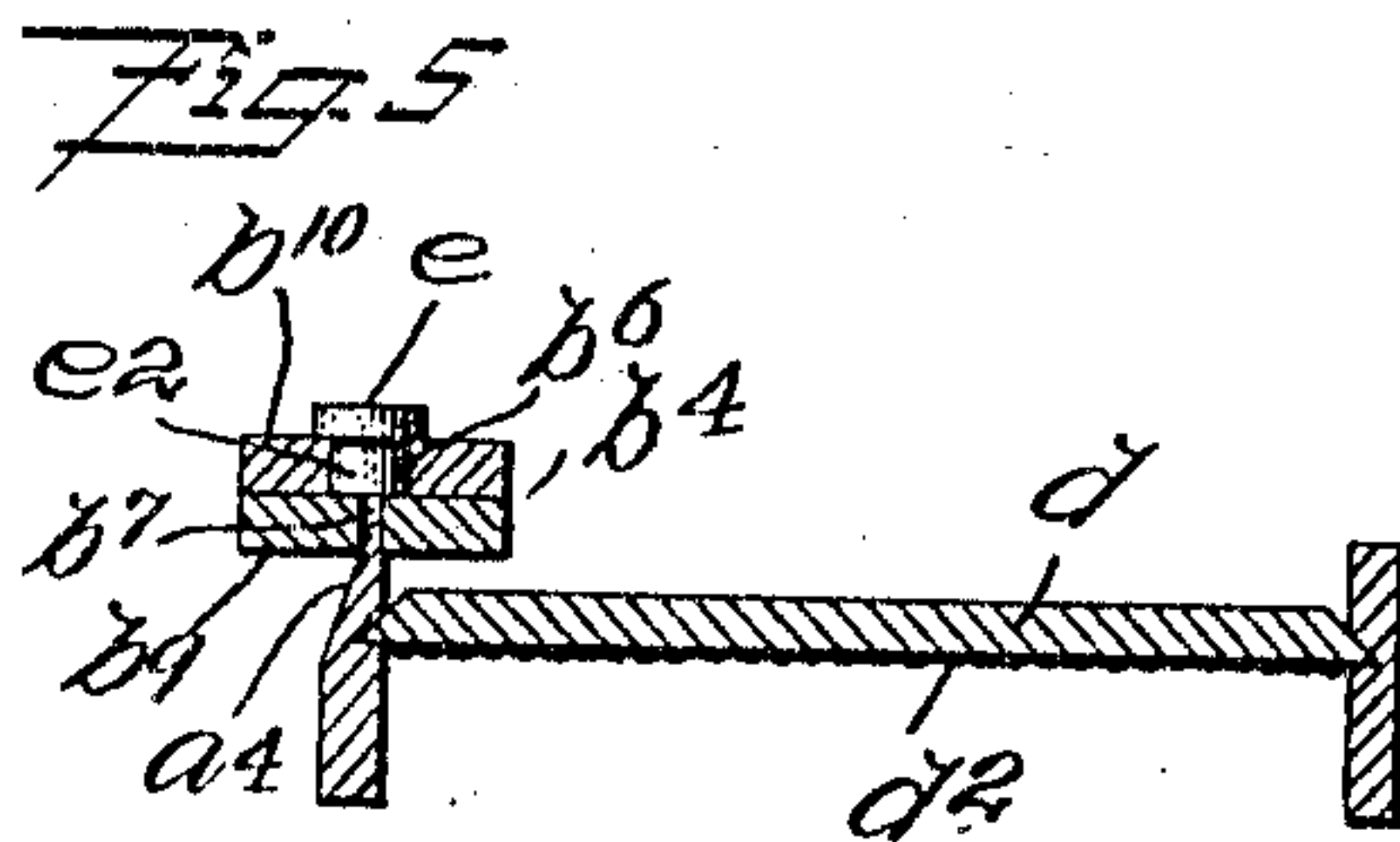
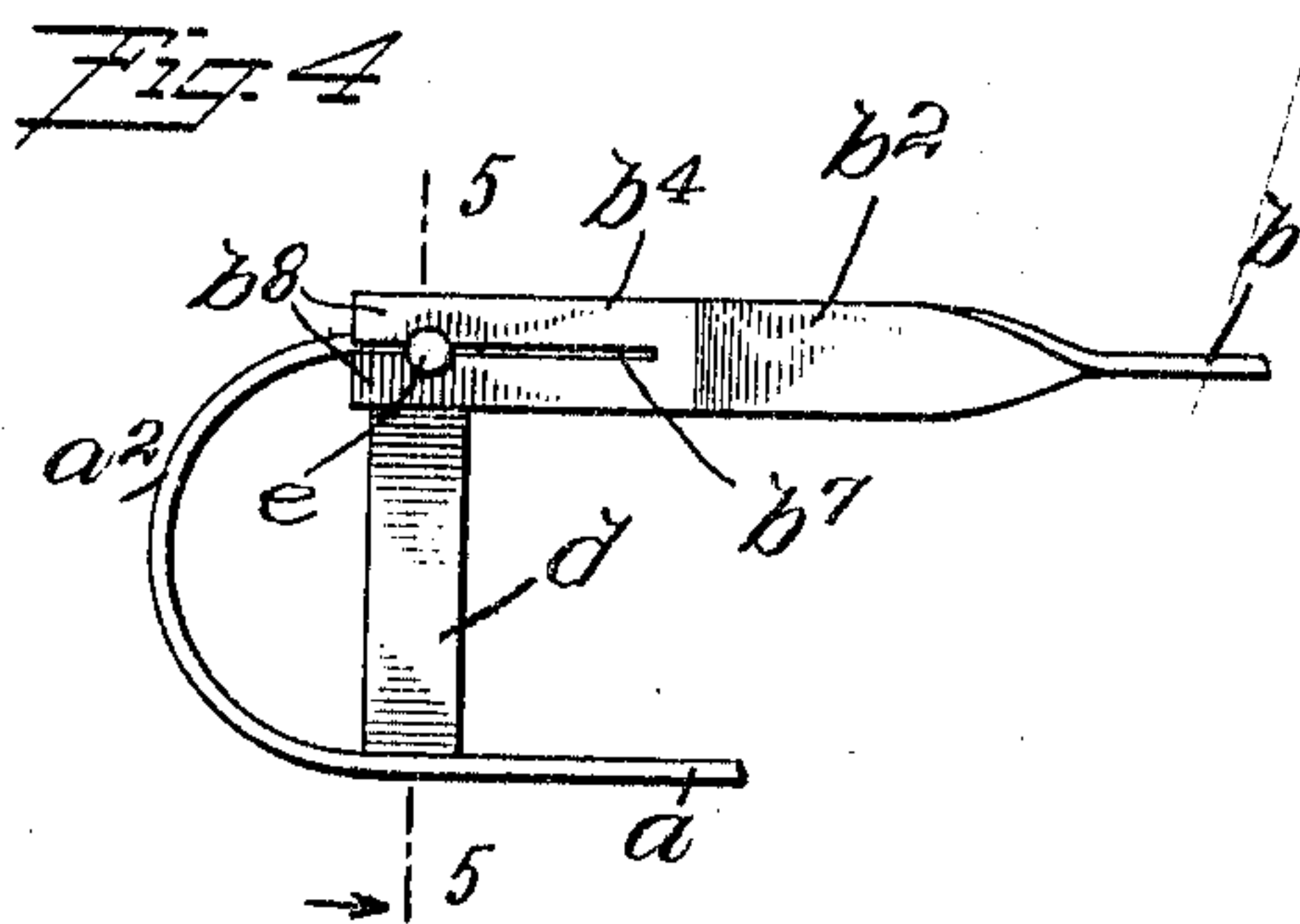
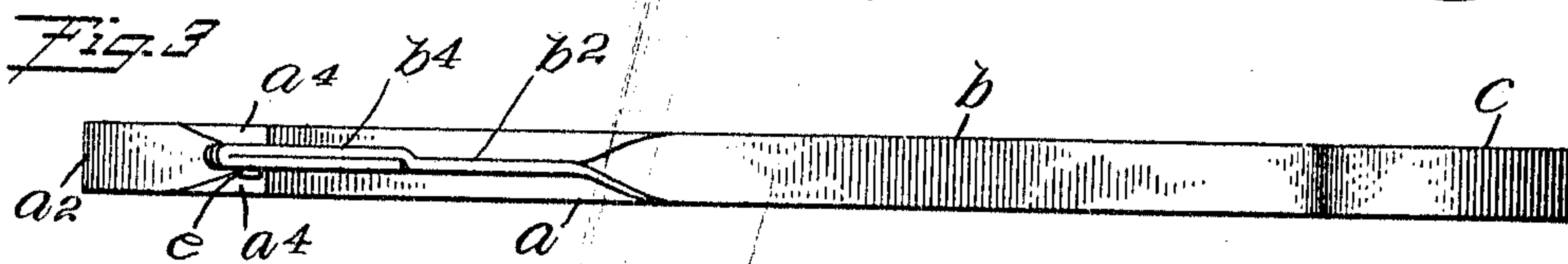
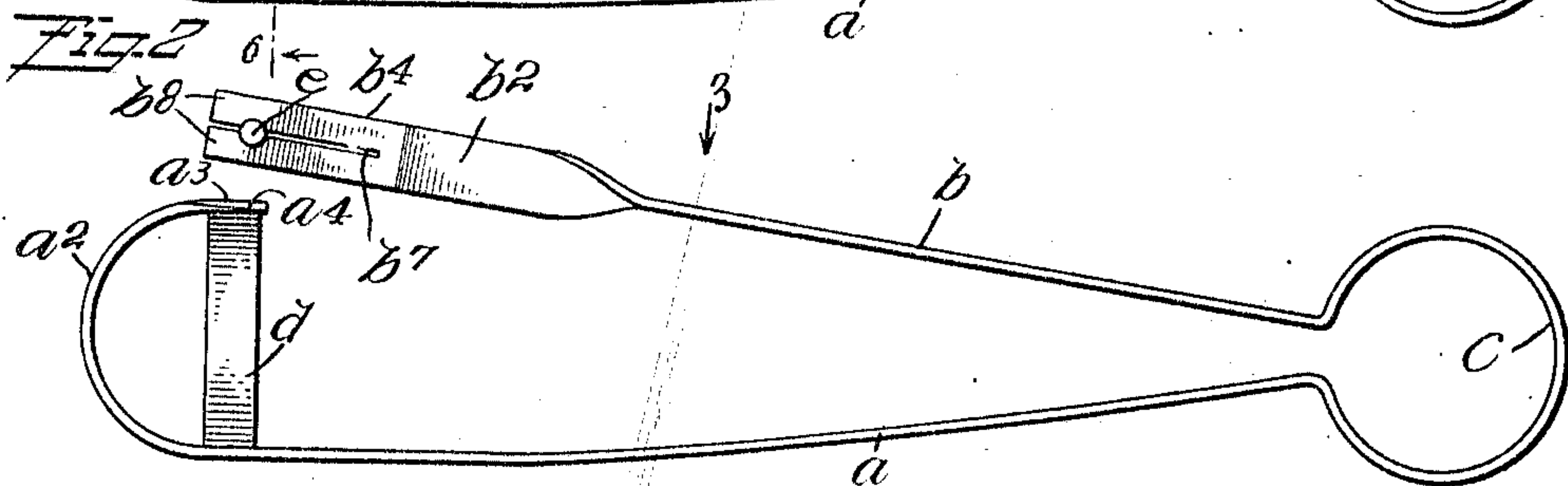
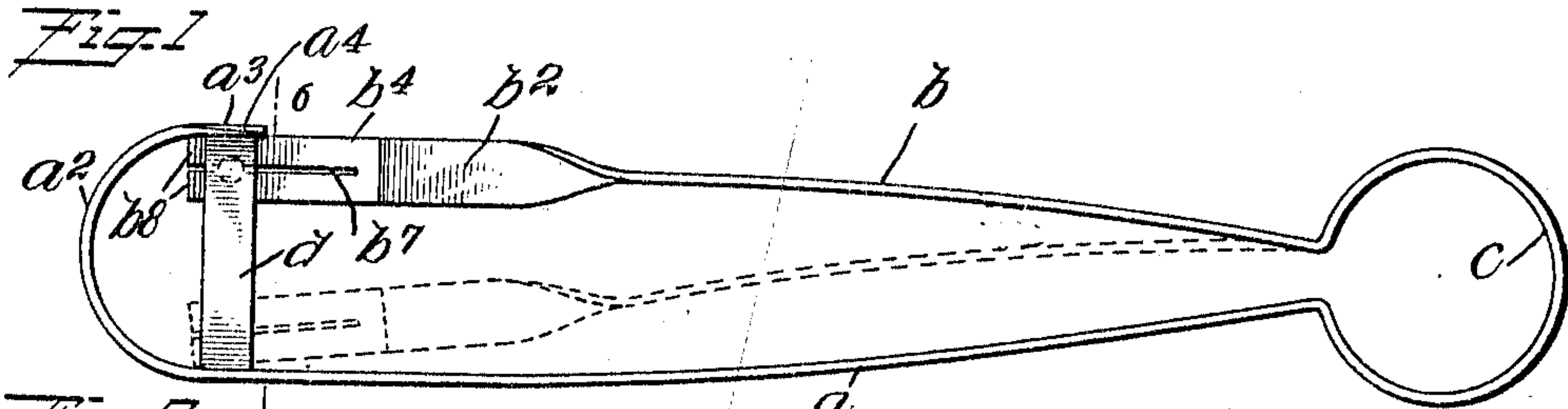


M. L. HAWKS.
LIGHTING DEVICE.
APPLICATION FILED FEB. 8, 1911.

993,678.

Patented May 30, 1911.



WITNESSES
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LIGHTING DEVICE.

993,678.

Specification of Letters Patent.

Patented May 30, 1911

Application filed February 8, 1911. Serial No. 607,357.

To all whom it may concern:

Be it known that I, MOSES L. HAWKS, a citizen of the United States, and residing at New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Lighting Devices, of which the following is a specification, such as will enable those skilled in the art to which it appertains to make and use the same.

This invention relates to lighting devices of the class used for lighting gas burners and for similar purposes, and the object of the invention is to provide an improved device of this class which is simple in construction and operation, and which may be conveniently manipulated, and with this and other objects in view the invention consists in a device of the class specified, constructed as hereinafter described and claimed.

The invention is fully disclosed in the following specification, of which the accompanying drawing forms a part, in which the separate parts of my improvement are designated by suitable reference characters in each of the views, and in which;—

Figure 1 is a side view of my improved lighting device and showing the parts thereof in position for use;—Fig. 2 a view similar to Fig. 1, but showing the parts in a different position;—Fig. 3 a view looking in the direction of arrow 3 of Fig. 2;—Fig. 4 a view similar to Figs. 1 and 2, but showing only a part of the device, and showing the parts thereof in a different position;—Fig. 5 a section on the line 5—5 of Fig. 4;—Fig. 6 a section on the line 6—6 of Fig. 1;—Fig. 7 a view similar to Fig. 4, but showing only one part of the device and showing one step in the formation thereof, and;—Fig. 8 a view of that part of the device shown in Fig. 7 and showing another step in the formation thereof.

In the practice of my invention I provide a lighting device of the class specified, the general form of which is old and well known and which comprises a main spring arm a and a supplemental spring arm b connected at one end by an open spring ring c formed integrally therewith and the end of the arm a is provided with a semicircular head a^2 having a cross bar d , one side of which is provided with a file or roughened igniting surface as shown at d^2 , and all the parts a , b ,

c and a^2 are preferably composed of a strip of flat spring metal.

The end a^3 of the semicircular head a^2 or of the bow which forms said head, is beveled at one or both edges thereof as shown at a^4 and the object of this construction will be hereinafter described.

The free end portion b^2 of the supplemental spring arm b is bent or turned at right angles to the main part thereof and is bent on the transverse line b^3 shown in Fig. 7 to form a head piece b^4 of double thickness, but before bending said part b at b^3 , the extreme end portion b^5 is tapped to form an aperture b^6 and after the bending of the end portion b^5 to form the double head b^4 , the said head is slotted longitudinally as shown at b^7 to form two spring jaws b^8 as clearly shown in Figs. 1, 2, 4 and 8.

I also provide a scratch or igniting plug e which, in the operation of the device, bears on the roughened surface d^2 of the bar d and which produces sparks by which the gas is ignited.

The plug e is of well known material and similar to other devices of its class now in use and said plug is provided with a neck portion e^2 which fits in the aperture b^6 and said neck portion bears on the upper side b^9 of the head b^4 , while the head of said plug bears on the inner side b^{10} of said head, as clearly shown, and the action of the spring jaws b^8 of said head securely hold said plug in position.

In order to remove the plug e or substitute a new one, the device is laid on a table or other support and the spring arm b is swung into the position shown in Fig. 4 and pressed downwardly so that one of the beveled edges at a^3 of the semicircular head a^2 will enter the slot b^7 in the head b^4 and force the jaws b^8 apart after which the plug e may be easily removed as will be readily understood.

My invention relates particularly to the formation of the head b^4 and the slotting thereof together with the diminution of at least one edge of the end portion a^3 of the semicircular head a^2 of the arm a so as to facilitate the attachment and detachment of the plug e .

The operation of this device will be exactly the same as others of its class now in use.

In order to ignite a gas jet, the arm b is swung into the position shown in Figs. 1

and 6, in which position the scratch or igniting plug *e* bears on the bar *d* which forms the other scratch or igniting member as shown in Fig. 6, and the arms *a* and *b* being
 5 held in one hand, pressure is applied to move the arm *b* to move the head *b*⁴ thereof, transversely of the bar *d* as indicated in dotted lines in Fig. 1 and this operation as will be understood produces the necessary sparks to
 10 ignite the gas.

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

1. A lighting device of the class described
 15 comprising two spring arms connected at one end, one of said arms being provided at its free end with a transverse bar and the other with a head adapted to bear thereon, said head being provided with a longitudinal
 20 slot forming two spring jaws, and a scratch or igniting plug detachably mounted between said jaws.

2. A lighting device of the class described comprising two spring arms connected at
 25 one end, one of said arms being provided at its free end with a transverse bar and the other with a head adapted to bear thereon, said head being provided with a longitudinal slot forming two spring jaws, and a scratch
 30 or igniting plug detachably mounted be-

tween said jaws, and said device being also provided at one end of said transverse bar with a reduced edge adapted to enter the slot in said head.

3. A device of the class described provided 35 with a spring arm having a longitudinally slotted head composed of two parts folded one upon the other, one of said parts being provided in the plane of the slot with an aperture, and a scratch plug having a neck 40 adapted to enter said aperture.

4. A device of the class described comprising two spring arms one of which is bent at one end to form a semicircular head in which is mounted a transverse bar, the end of the 45 bend which forms said semicircular head being provided with a beveled edge, the other spring arm being provided with a slotted head forming spring jaws between which is detachably mounted an igniting scratch 50 plug.

In testimony that I claim the foregoing as my invention I have signed my name in presence of the subscribing witnesses this 6th day of February 1911.

MOSES L. HAWKS.

Witnesses:

FRANK G. AT LEE,
 C. E. MULREANY.