

(No Model.)

J. C. CHAMBERS.  
CURLING IRON AND HEATER.

No. 526,685.

Patented Oct. 2, 1894.

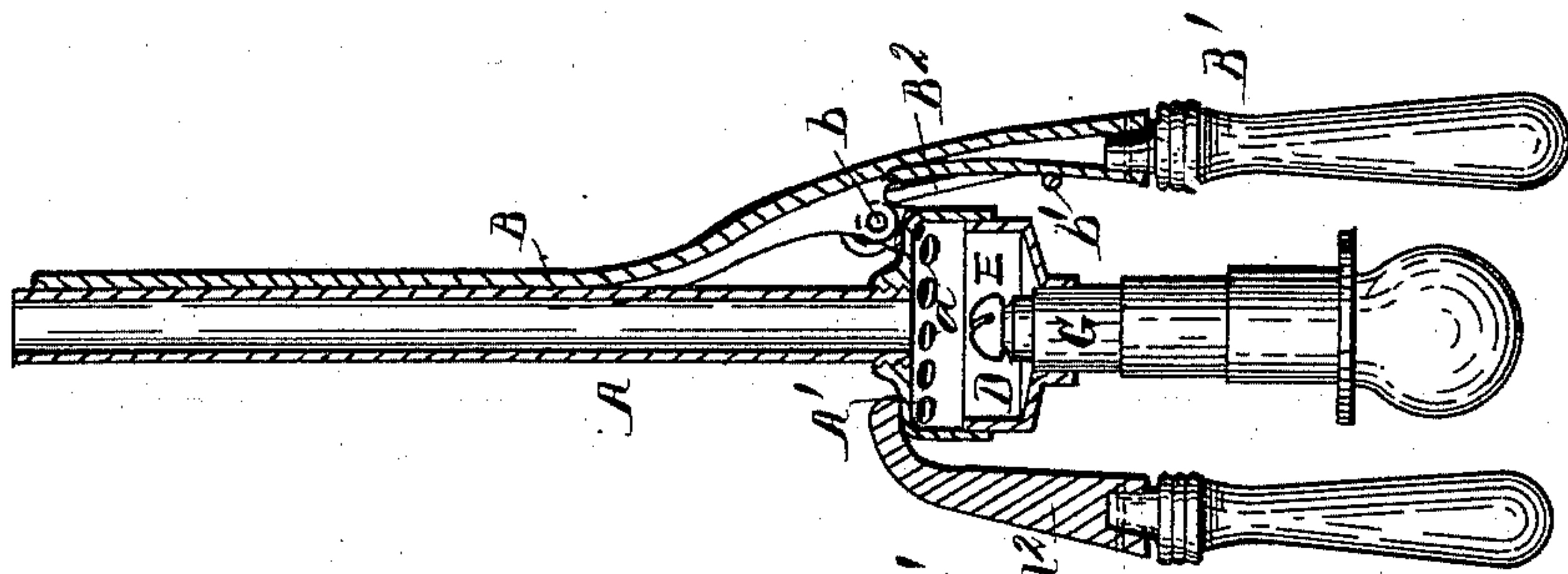


Fig. 4-

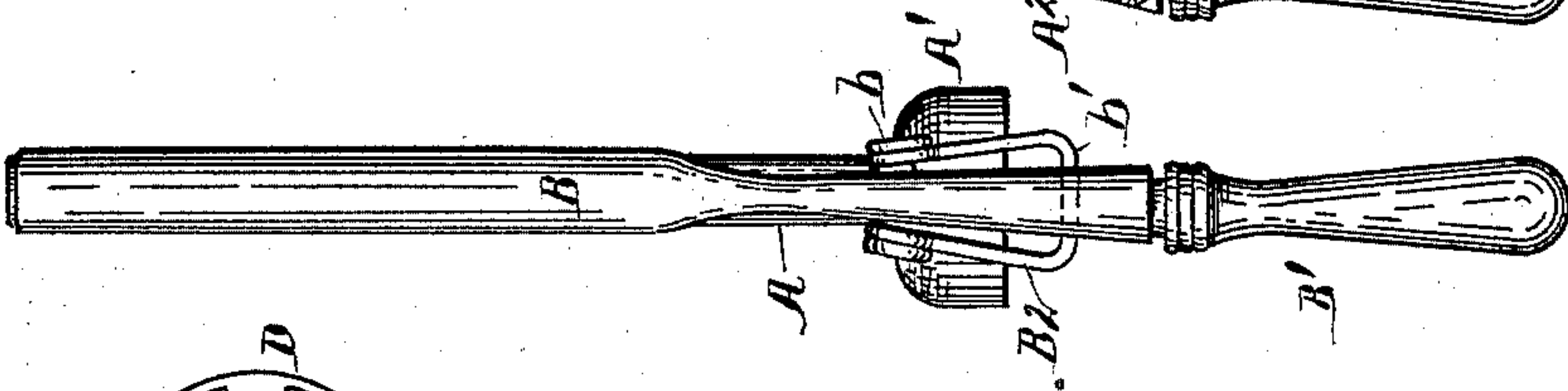


Fig. 3-

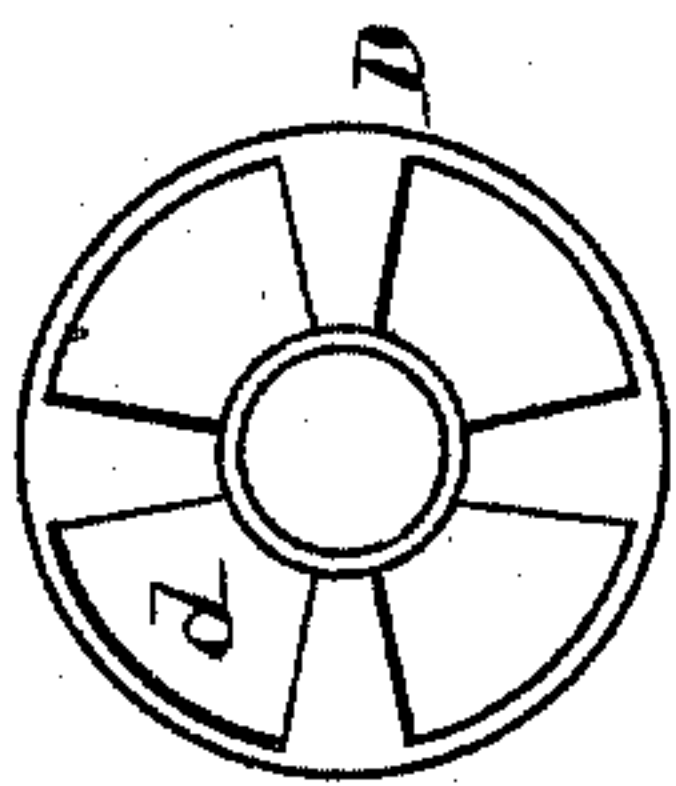


Fig. 5-



Fig. 6-

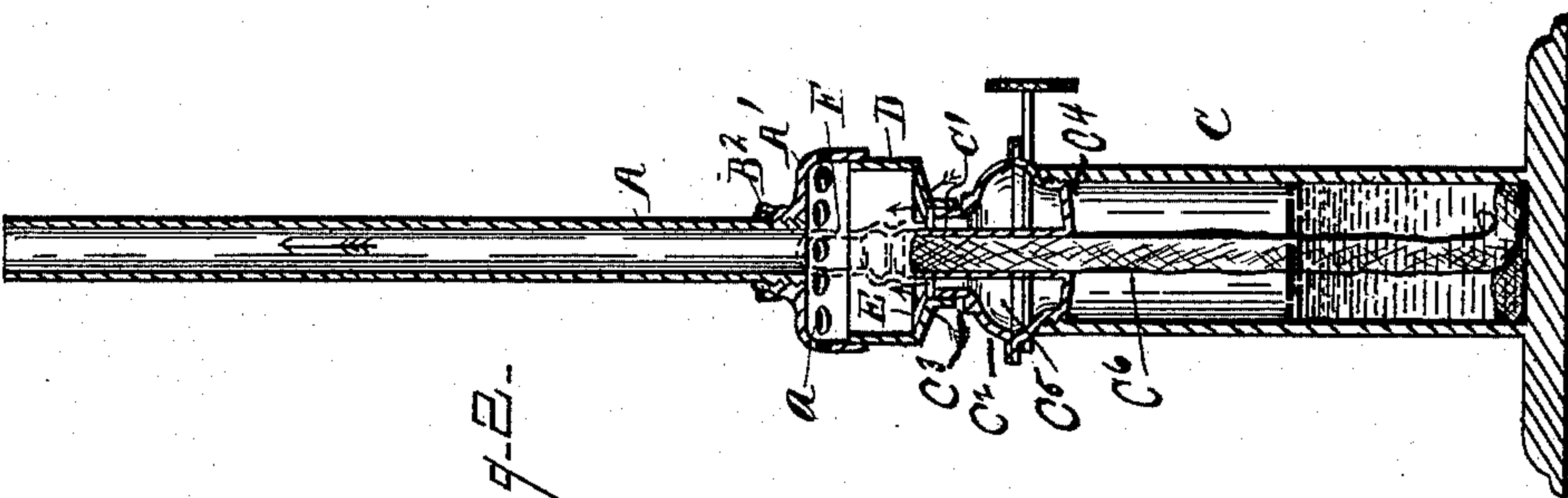


Fig. 2-

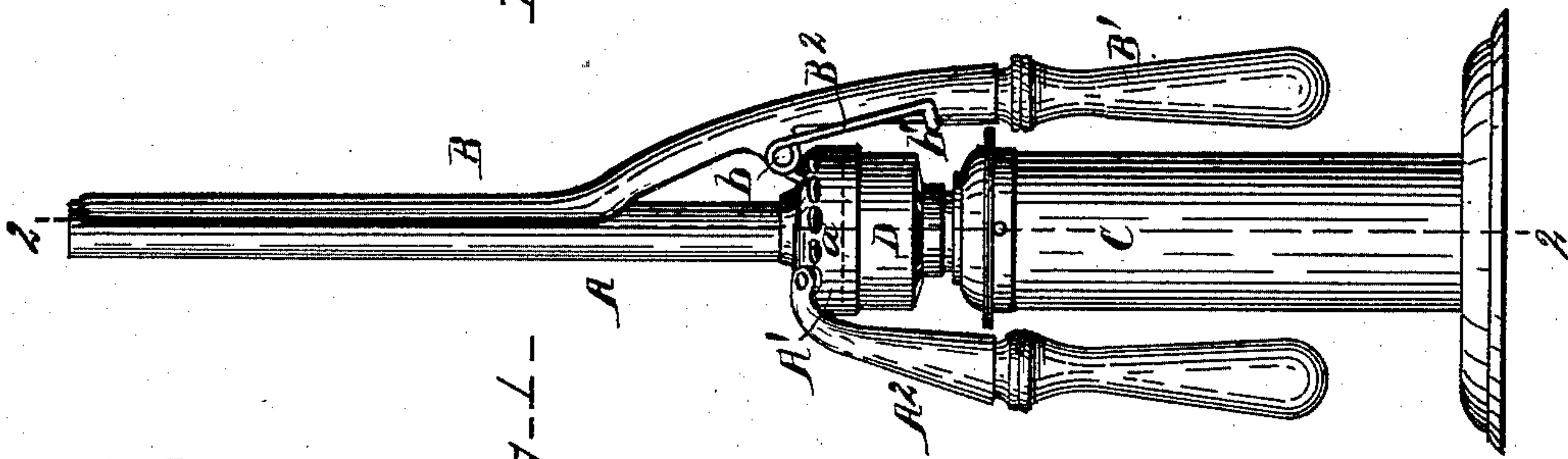


Fig. 1-

WITNESSES

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# UNITED STATES PATENT OFFICE.

JOSEPHUS C. CHAMBERS, OF DETROIT, MICHIGAN, ASSIGNOR TO ROBERT  
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## CURLING-IRON AND HEATER.

SPECIFICATION forming part of Letters Patent No. 526,685, dated October 2, 1894.

Application filed July 2, 1894. Serial No. 516,264. (No model.)

*To all whom it may concern:*

Be it known that I, JOSEPHUS C. CHAMBERS, a citizen of the United States, residing at Detroit, county of Wayne, State of Michigan, have invented a certain new and useful Improvement in Curling-Irons and Heaters; and I declare the following to be a full, clear, and exact description of the same, 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, which form a part of this specification.

My invention relates to certain new and useful improvements in a curling iron and heater, and consists in the construction, combination and arrangement of devices hereinafter described and claimed, and illustrated in the accompanying drawings, in which—

Figure 1 is a side elevation. Fig. 2 is a vertical section. Fig. 3 is a side elevation at right angles to Fig. 1. Fig. 4 is a view illustrating a modification of parts of the device partly in side elevation, and partly in vertical section. Fig. 5 is an inverted plan view of the collar D. Fig. 6 is a detail view of the cap.

My invention is designed to provide a novel article of this class, of simple and economical construction and of superior efficiency, the curling iron being provided with a heating device, as a lamp, for heating the same, the lamp constituting a feature of the construction.

In the use of curling irons or curling tongs, it is very desirable to provide the same with economical and simple means of heating the barrel, while at the same time the barrel and its spring clamp should be made detachable from the heating device when heated and ready to use.

My invention is designed to provide these desirable features and is carried out as follows:

A represents a tubular barrel formed at its base with an expanded housing A'.

B is a spring clamp normally resting against the outer surface of said barrel. The spring clamp is provided with an operating handle B' and is fulcrumed upon the housing A', as shown at "b."

B<sup>2</sup> is a spring for restoring and holding the clamp in a normally closed position. The two extremities of the spring I prefer to coil about

the fulcrum pin, as shown, the body of the spring being bent intermediate its ends and forming a laterally extended seat b' upon which the clamp rests, as shown.

With the housing A' is engaged an operating handle A<sup>2</sup>. The housing is provided with suitable orifices or openings "a" through which air may be supplied to support combustion.

C denotes a lamp of suitable construction.

The lamp shown herewith is constructed with a tubular body forming a chamber to contain a desired liquid fuel, as gasoline or alcohol for example. Engaged with the tubular body of the lamp is a burner formed with a burner tip C' and with a surrounding body C<sup>2</sup> spaced from the tip as shown, and terminating in a neck C<sup>3</sup> at the upper end thereof surrounding said tip. The burner is formed with a diaphragm C<sup>4</sup> at its base closing the base of the burner between the body C<sup>2</sup> thereof and the tip, and forming an interior chamber C<sup>5</sup>. This chamber serves to receive and to hold any drip, if any, that might overflow from the tip. Within the burner tip and extending into the body of the lamp is a suitable wick C<sup>6</sup>. Engaged with said neck is a supporting collar D, which may have a detachable engagement therewith. The housing A' of the tubular barrel, has a removable engagement with the upper edge of the collar D, as shown. The collar D is formed with openings or orifices "d" through which air is admitted to support combustion.

It will be seen that the housing and collar when united form an interior combustion chamber E, the products of combustion passing through the interior of the barrel A.

It will be perceived that the barrel and the clamp are each provided with an operating handle independent of the lamp, and that the barrel and its clamp, with their respective handles and the housing with which they are engaged, are removable from the lamp.

The operation of the device will now be understood. When it is desired to heat the iron, the barrel and clamp are located over the upper end of the lamp by engaging the housing A' upon the collar D as above explained. The products of combustion passing through the interior of the barrel, it is obvious that the ex-



terior thereof is not blackened, no carbon being deposited upon the outer surface either of the barrel or the clamp while heating them, so that the device is always in condition for use, requiring no cleaning after being heated. When the barrel and clamp are sufficiently heated, by clasp ing the two handles already described the barrel and clamp may be lifted off from the lamp, the same being restored into position on the lamp after being used. Any suitable extinguishing cap F may be employed as desired for extinguishing the lamp. That illustrated in Fig. 6 and in dotted lines Fig. 2 consists of a hollow tube open at the base and closed at the top, and adapted to fit over the burner tip C'.

Where gas is provided, the barrel and its clamp with the housing A' and collar D may be employed, dispensing with the lamp, the gas jet serving as a heater instead. In this case, as shown in Fig. 4, the collar D is slipped over the gas jet G, bearing thereupon the housing A' and the barrel and clamp connected therewith. I prefer in the manufacture of the parts, to make the collars D of a size to either

be engaged on a lamp top or upon a gas jet, although for the two purposes, the collars D might be made of any required size.

What I claim as my invention is—

The curling iron and heater herein described, having in combination a tubular barrel provided with an open housing at its base, an operating handle permanently attached to said housing, a spring clamp connected with said housing provided with an operating handle, a heater provided with a removable supporting collar D to engage said housing at the base of the barrel, said housing having a removable engagement with said collar whereby the barrel and clamp and their operating handles may be removed from the heater for use when the barrel is heated, substantially as set forth.

In testimony whereof I sign this specification in the presence of two witnesses.

JOSEPHUS C. CHAMBERS.

Witnesses:

N. S. WRIGHT,

OTTO B. BAENZIGER.