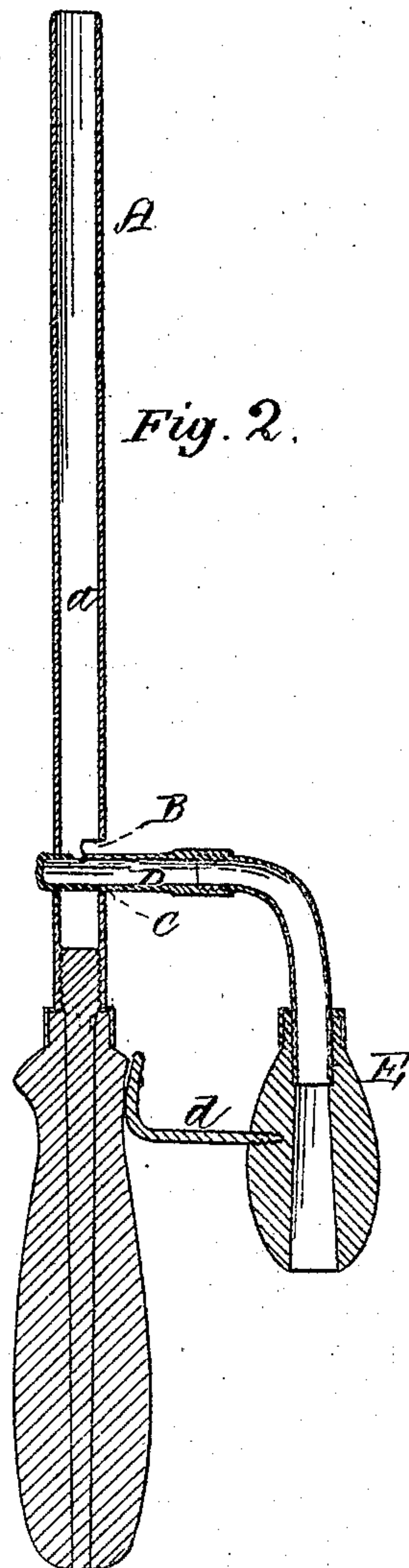
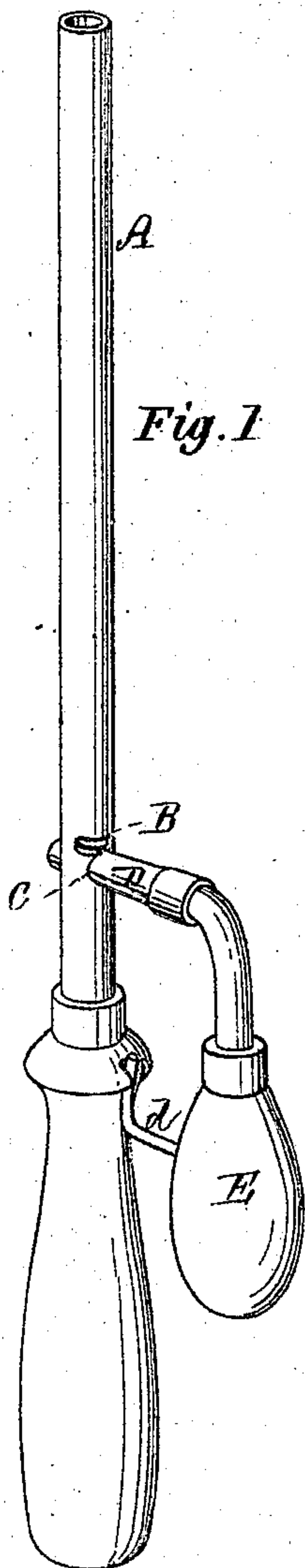


C. HENRY BARNEY.

Improvement in Hair Curlers.

No. 119,960.

Patented Oct. 17, 1871.



Witnesses.  
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# UNITED STATES PATENT OFFICE.

C. HENRY BARNEY, OF PROVIDENCE, RHODE ISLAND.

## IMPROVEMENT IN HAIR-CURLERS.

Specification forming part of Letters Patent No. 119,960, dated October 17, 1871.

*To all whom it may concern:*

Be it known that I, C. HENRY BARNEY, of the city and county of Providence and State of Rhode Island, have invented a certain new and useful Human-Hair Curler.

My invention relates to that class of human-hair-curling devices to which heat may be applied without the aid of a common fire; and consists in forming within the curling-rod a longitudinal flame-chamber or flue, provided with suitable openings at the base to admit a horizontal or vertical gas-burner or lamp, and also provided with ports for admitting the requisite amount of atmosphere to secure a perfect flame within the chamber.

And I do hereby declare that the following specification, taken in connection with the drawing furnished and forming a part of the same, is a true, clear, and exact description of a convenient and desirable apparatus embodying my invention.

Referring to the drawing, Figure 1 represents one of my curling-rods in perspective as if connected to and being heated by a gas-burner mounted on a stationary gas-fixtue. Fig. 2 represents the same in vertical section.

A is a curling-rod. It is hollow throughout its entire length, and the interior constitutes a flame-chamber, *a*. It is provided with a handle composed of wood or metal, and should be so constructed that it will remain as cool as possible during use. B is an atmospheric port for admitting air adjacent to the flame. C is, in this instance, a lateral opening for receiving a horizontal pipe or gas-burner, D, which is punctured on its upper side to form the gas-jet. The pipe D is mounted on a socket, E, arranged to set over and connect with a stationary gas-burner. From the side of the socket a steadying-brace, *d*, is projected, which, by coming in contact with the handle, steadies the curler while being heated.

Instead of a gas-burner a long or high spirit lamp provided with a laterally-projecting wick-tube, for insertion into the lateral opening C, will heat the rod in the same manner, and it is, therefore, adapted for ordinary use in localities not provided with gas.

The advantages of my curling-iron can also be attained by having at the base of the flame-chamber a fixed gas-tip, and a handle provided with a longitudinal opening in its center, the latter being so fitted at the butt that it will set over and connect with an ordinary stationary

vertical gas-burner. This style of curler has been made by me and found to be very desirable. From the fact, however, that with such curlers the gas must be turned off every time the curling operation is commenced, and turned on again and relighted for reheating, it was found that the separate connecting device for continuing the gas-flame during the process of curling was more convenient.

I am aware that hollow curling-rods have heretofore been made in which water or other heated matter has been placed. I am also aware that hollow curling-irons, mounted in hollow handles, are not new; but such rods have been provided with numerous perforations, and were so arranged that when the hollow handle was attached to a gas-burner, the gas filled the whole interior of the iron, and upon escaping through the numerous perforations, and having been lighted, would heat the rod by the numerous flame-jets issuing from its sides. I am also still further aware that flame-chambers have been located between the handle and a chamber within the curling-rod, for heating water, sand, or other matter contained within this latter chamber; but I am not aware that there has ever been made before my invention a curling-rod provided with a longitudinal interior flame-chamber or flue, so arranged for connection with a lamp or a gas-burner that the action of the flame and heat would be directed against the interior walls of the curling-rod throughout its entire length.

By this means the smooth polished exterior of the curling-rod is not exposed to the corrosive action of the direct flame; and yet it is evenly, rapidly, economically, and conveniently heated.

Having thus described my invention and desirable forms of embodiment, I claim as new and desire to secure by Letters Patent—

1. The improved curling-rod provided with a suitable atmospheric port or ports and a longitudinal interior flame-chamber, adapted to receive a vertical flame at or near its base, substantially as shown and described.

2. In combination with the improved curling-rod described, the vertical socket E provided with a lateral-projecting gas-burner punctured for a vertical flame, as and for the purpose specified.

Witnesses:

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