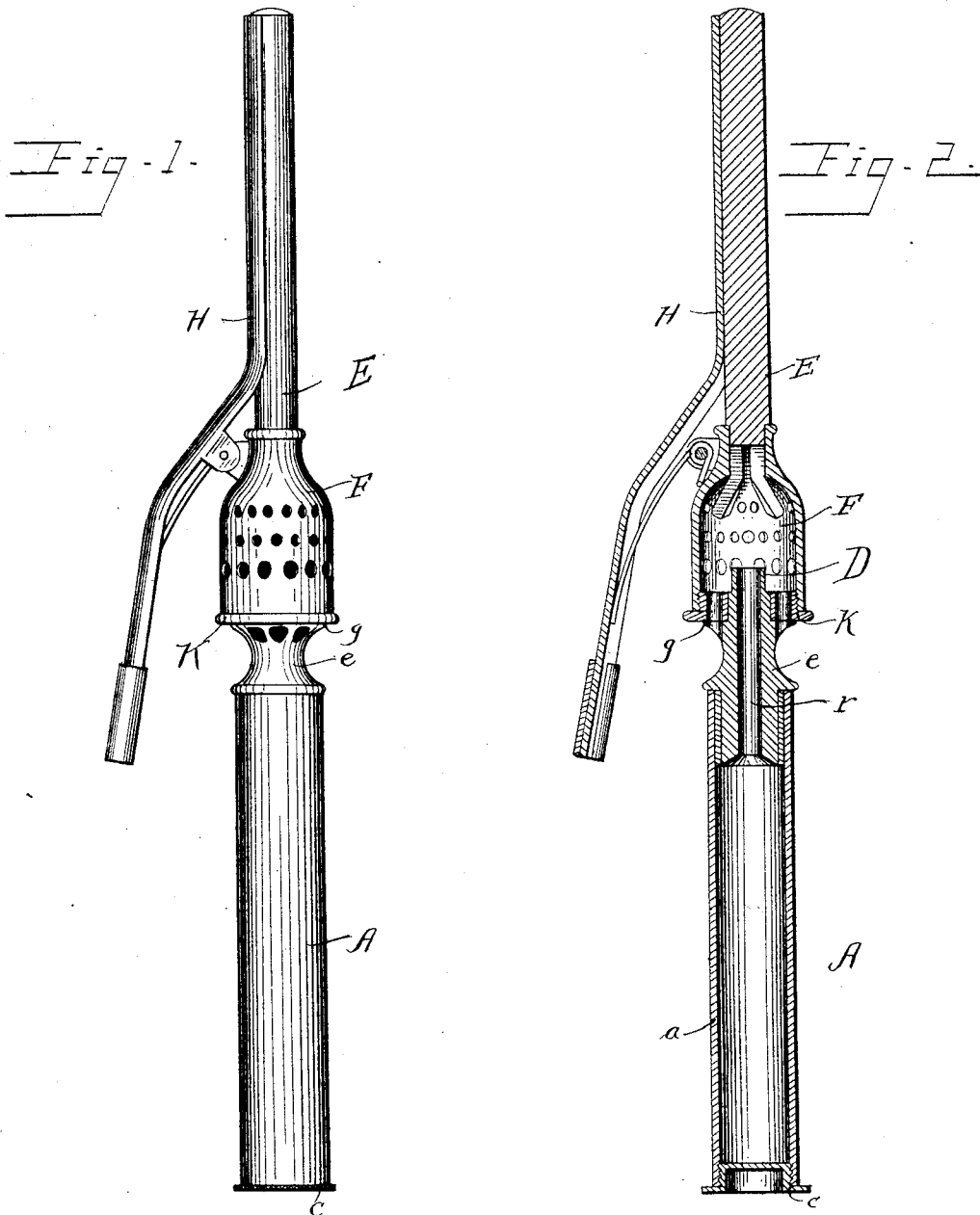


(No Model.)

G. M. PITNER.
CURLING IRON.

No. 536,839.

Patented Apr. 2, 1895.



Witnesses:

Louis S. Thomsen.

Frank D. Thomsen

Inventor:

George H. Pitner.

by his Attorney.

Frank D. Thomsen.

UNITED STATES PATENT OFFICE.

GEORGE M. PITNER, OF CHICAGO, ILLINOIS.

CURLING-IRON.

SPECIFICATION forming part of Letters Patent No. 536,839, dated April 2, 1895.

Application filed March 19, 1894. Serial No. 504,339. (No model.)

To all whom it may concern:

Be it known that I, GEORGE M. PITNER, a citizen of the United States, and a resident of Chicago, Cook county, Illinois, have invented certain new and useful Improvements in Curling-Irons, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

The object of my invention is to provide a self heating curling iron, the hollow handle of which is prevented from becoming hot and uncomfortable to the touch, and the combustible therein from volatilizing and escaping prematurely; substantially as hereinafter fully described, and as illustrated in the drawings, in which—

Figure 1 is a side view of my improved curling iron. Fig. 2 is a longitudinal central section therethrough.

In the drawings A represents the tubular handle of my invention, which consists of a suitable length of metal tubing *a*, the appearance of the outer circumference of which is improved by a covering of bookbinders' cloth or other suitable material, and one end of which is closed by a metallic stopper *c*, and the other end of which is closed by the contiguous end of the burner *e*, the diameter of which latter is reduced sufficiently to make it fit tightly in the said tube. The shoulder made by reducing the diameter of the end of the burner to enable it to fit into said tube *a*, is made to come tightly against the end edges of the tube, and protect the same. The neck of this burner is preferably less in diameter than the remainder of its length, and gradually merges into the circumferential flange *g* surrounding the jet D of the burner. Resting upon or against this flange is a wood or vulcanite fiber washer K, which surrounds the jet D and has its circumference partly or wholly screw-threaded.

E represents a curling iron or mandrel, one end F of which is of a perforate bowl shape. The open mouth of this bowl-shaped end F has its inner circumference screw-threaded with reference to the washer K, over which it is screwed so as to connect the iron E to the handle, and pivotally connected to the smaller closed end of this perforate bowl-shaped end F, is a clamp H, which is used in conjunction with said iron in the usual well understood manner during the process of curling the hair.

The washer K is either of such diameter

with reference to that of the flange *g*, or the extent of the screw-thread of the former is such that the metal of the bowl-shaped end does not come in contact with the flange *g*, or have a metallic contact in any way with the handle A, either directly or indirectly. The consequence is that the heat from the iron E is in no way imparted to the handle of the device, and does not become so heated as to become uncomfortable to the touch, or so as to volatilize the alcohol which is generally used as the best combustible for the purpose. When the alcohol is resolved into a gas its expansion is so great that it forces the liquid alcohol out of the ends of the tube *a*, and thus soils the hands, as well as creating a tendency to burn outside.

The jet D projects into the bowl-shaped end F when the iron is attached to the handle and in order to supply plenty of oxygen to the flame issuing therefrom, I prefer to provide both the flange *g* and washer K with air openings through which plenty of air finds access to the chamber within the bowl-shaped end F within which the jet is normally inclosed.

In operation I fill the hollow handle with alcohol or cotton waste saturated with alcohol and run a suitable wick through the central passage *r*, made with reference thereto in the burner, and then lighting the wick, screw the bowl-shaped end of the iron F onto the washer K of the burner. The blaze from the wick is thus thoroughly protected and guarded so that it cannot come in contact with nor singe the hair, and yet will have plenty of air and not be liable to smother and die out.

What I claim as new is—

In a curling iron the combination with a mandrel having a perforate bowl-shaped end, and a clamp, of the hollow handle forming a receptacle for a combustible, and having its butt end closed, and a burner *e* permanently secured in the opposite end of said handle the jet of which projects into said perforate bowl-shaped end, a washer K of solid insulating material surrounding the jet of the burner and secured to a flange projecting therefrom, and said washer and flange provided with air openings for the purpose specified.

GEORGE M. PITNER.

Witnesses:

FRANK D. THOMASON,
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