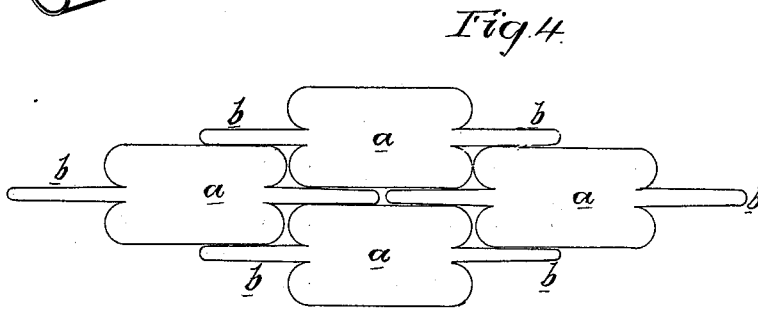
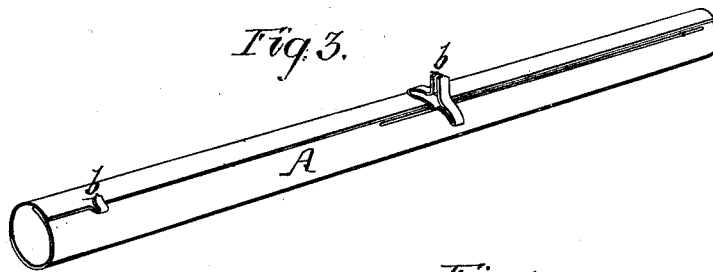
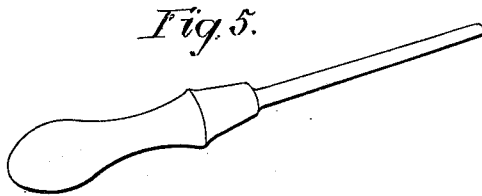
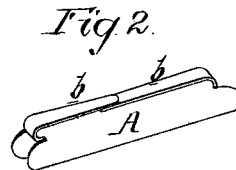
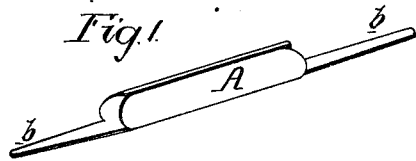


C. A. IDLER.
HAIR-CURLER.

No. 185,751.

Patented Dec. 26, 1876.



Witnesses.
Hermann Koenig
Harry Smith.

Charles A. Idler
by his Attorneys.
Howson and Son

UNITED STATES PATENT OFFICE.

CHARLES A. IDLER, OF PHILADELPHIA, PA., ASSIGNOR OF ONE-HALF OF HIS RIGHT TO RICHARD R. CLAIBORNE, OF SAME PLACE.

IMPROVEMENT IN HAIR-CURLERS.

Specification forming part of Letters Patent No. **185,751**, dated December 26, 1876; application filed November 20, 1876.

To all whom it may concern:

Be it known that I, CHARLES A. IDLER, of Philadelphia, Pennsylvania, have invented a new and useful Improvement in Hair-Curlers, of which the following is a specification:

The object of my invention is to make a cheap and effective device for curling hair, an object which I attain in the following manner, reference being had to the accompanying drawing, in which—

Figures 1 and 2 are perspective views of my improved hair-curler, and Fig. 3 the same adapted to larger curls.

In carrying out my invention I take a plate of thin sheet metal, selecting that which is of a tough and ductile character, and punch or cut from this plate a number of blanks of the shape shown in Fig. 4, each of these blanks consisting of a body, *a*, and, by preference, two fingers, *b b*, one at each end. I bend up the body *a* so that its opposite edges shall meet, or nearly meet, thus forming a tube, *A*, with fingers *b b* projecting one from each end of the tube, as shown in Fig. 1.

In using this device a lock of hair is wrapped tightly around the tube, and its end secured by bending the fingers *b* over the tube, so as to form clasps, as shown in Fig. 2. The fingers are allowed to remain in this position until the hair becomes "set," when they are bent backward and the tube withdrawn from the curl.

When it is desired to set the hair immediately it is the usual practice to wind it round a heated iron, such as shown in Fig. 5. My

invention offers especial facilities for the use of this heated iron without danger of burning the hair, the tube *A* serving to so modify the heat of the iron before it reaches the hair that all danger of burning the latter is overcome.

When the tube *A* is made of a diameter suitable for large curls, I prefer to make the clasps *b* adjustable from or toward each other, so that they can be applied to curls of different lengths. This I accomplish by adapting one of the clasps to a longitudinal slot in the tube, as shown in Fig. 2.

As will be observed in Fig. 4, the blanks from which the curler is made can be punched from a sheet with very little waste, and, as the metal is ductile, the arms *b* can be bent without breaking, so that the tubes can be used a number of times before becoming useless.

I claim as my invention—

1. A hair-curling device consisting of a tube, *A*, provided with one or more clasps, *b*, made in one part with the said tube, substantially as set forth.

2. The combination of the tube *A*, constructed for the reception of a heated iron, with clasps *b b*, adjustable from and toward each other, as set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

CHARLES A. IDLER.

Witnesses:

HERMANN MOESSNER,
HARRY SMITH.