

(No Model.)

C. H. JOHNSON.
CURLING IRON.

No. 527,176.

Patented Oct. 9, 1894.

Fig. 1.

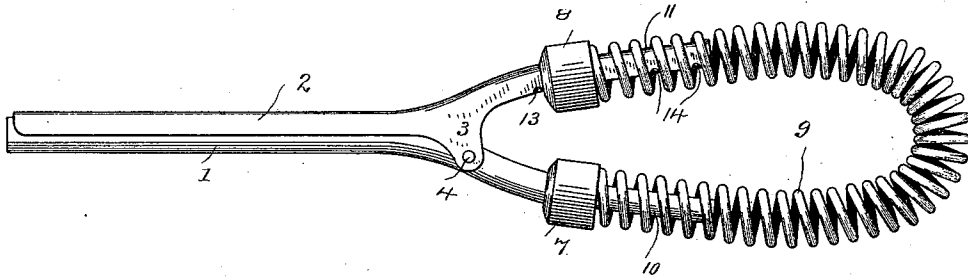
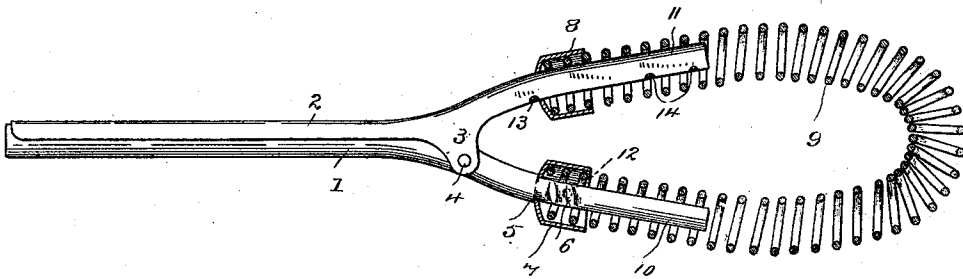


Fig. 2.



WITNESSES

H. A. Lamb
S. V. Richardson

INVENTOR

Charles H. Johnson
By *A. M. Wooster*
Atty.

UNITED STATES PATENT OFFICE.

CHARLES H. JOHNSON, OF DERBY, CONNECTICUT, ASSIGNOR OF ONE-THIRD
TO JAMES R. BRINSMADE, OF SAME PLACE.

CURLING-IRON.

SPECIFICATION forming part of Letters Patent No. 527,176, dated October 9, 1894.

Application filed May 10, 1894. Serial No. 510,731. (No model.)

To all whom it may concern:

Be it known that I, CHARLES H. JOHNSON, a citizen of the United States, residing at Derby, in the county of New Haven and State of Connecticut, have invented certain new and useful Improvements in Curling-Irons; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention has for its object to produce a curling iron which shall be made entirely of metal, in which the handle itself shall serve as a spring, which shall be neat and attractive in appearance and which moreover may be produced at a greatly reduced cost of construction. It is of course well understood that solid metal handles on curling irons are objectionable for the reason that they are apt to become heated to such a degree in use as to require the use of some non-conducting material as a holder. It is furthermore understood that ordinary wood handles are objectionable as they are very likely to get burned in use and furthermore that they are likely to shrink causing them to split and become detached from the shanks. With the object of overcoming these objections I have devised the novel curling iron which I will now describe referring by numbers to the accompanying drawings forming part of this specification, in which—

Figure 1 is an elevation of my novel curling iron, and Fig. 2 is a partial sectional view showing one mode in which I have secured the ends of the spring handle to the shanks of the arms.

1 denotes one of the curling arms which is made from a rod and formed to shape in dies, and is provided with a shank 10; 2, the other curling arm which is blanked out from sheet metal, is likewise formed to shape in dies and is provided with a shank 11. Arm 2 is provided with ears 3 between which arm 1 is pivoted as at 4. The end of the shank of arm 1 is reduced slightly leaving a stop 5 and is provided with inclined projections 6.

7 denotes a ferrule on arm 1 and 8 a ferrule on arm 2. These ferrules are partially closed in at their inner ends so as to engage the shanks.

9 denotes the spring handle which is made of coiled wire thus serving the purpose both of a closing spring and of a ventilated handle. My novel handle is just as convenient to use as a wood handle and is both attractive in appearance and durable.

In assembling, ferrule 7 is slipped over the shank of arm 1 the closed end of the ferrule resting against stop 5. One end of the coil of wire is then turned upon shank 10, the coils of wire engaging the inclined projections 6 and being retained thereby in position. If preferred a pin 12 may be used in lieu of the inclined projections as indicated by dotted lines in Fig. 2. The coil of wire comprising the handle is turned on to arm 1 as far as it will go the inner end of the coil itself passing into ferrule 7 and forcing the ferrule close up against the shoulder. Ferrule 8 is slipped on over shank 11, its inward movement being determined by a stop 13 formed by turning the metal of the shank outward slightly. The other end of the wire comprising the handle is then passed over shank 11 and into the ferrule forcing the ferrule up against the shoulder. This end of the spring handle is then locked in position by turning the metal of shank 11 outward slightly between the coils as at 14 thus forming a stop or stops which prevent that end of the spring handle from becoming detached. The central portion of the spring handle will be curved to substantially the shape shown in the drawings thus forming a very neat and attractive handle.

Having thus described my invention, I claim—

1. A hair curler comprising the pivoted arms, spiral spring handle and the ferrules, the ends of said spiral spring embracing the ends of the arms and the said ferrules being arranged on said arms, and inclosing the said spring ends, substantially as described.

2. A hair curler comprising the pivoted arms one of which is solid and the other

formed of sheet metal bent into channel form,
the spiral spring handle, fitting on the arms
and ferrules covering the ends of the spiral
spring, the said sheet metal arm having a lug
5 bent from its edge between the coils of the
wire to hold the spring to said sheet metal
arm, substantially as described.

In testimony whereof I affix my signature in
presence of two witnesses.

CHARLES H. JOHNSON.

Witnesses:

CHARLES N. DOWNS,
SUSIE ROGERS.