

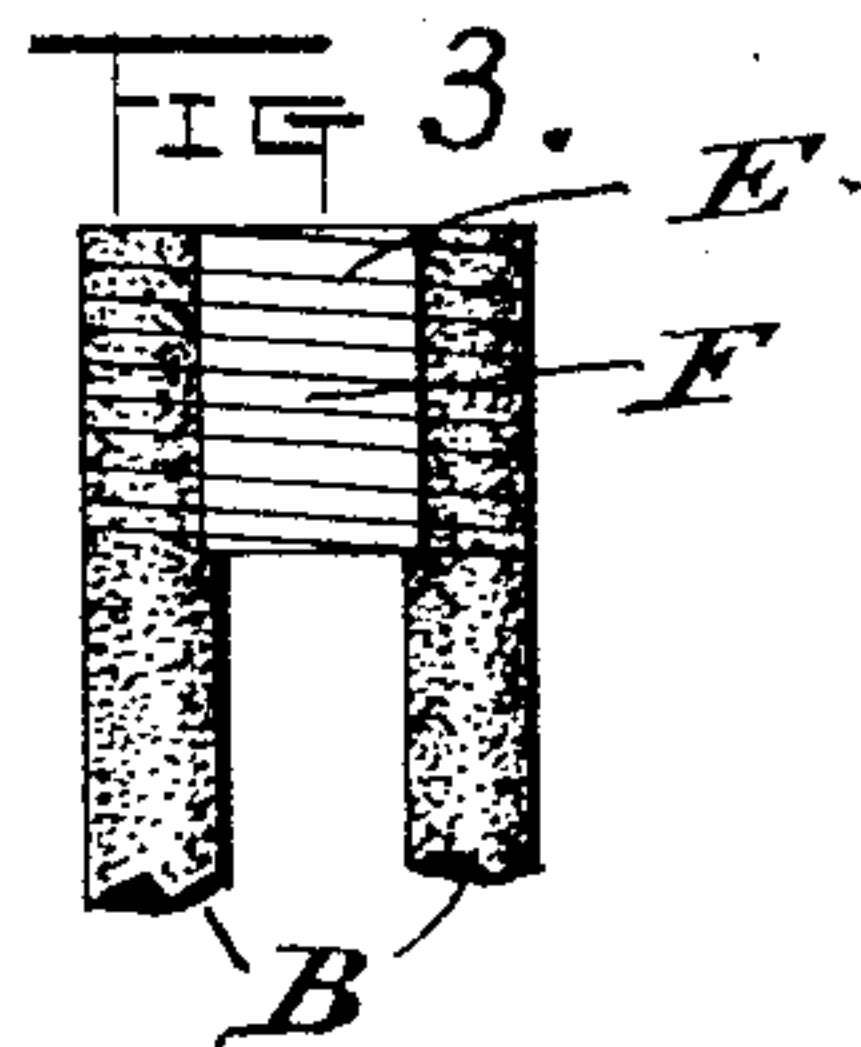
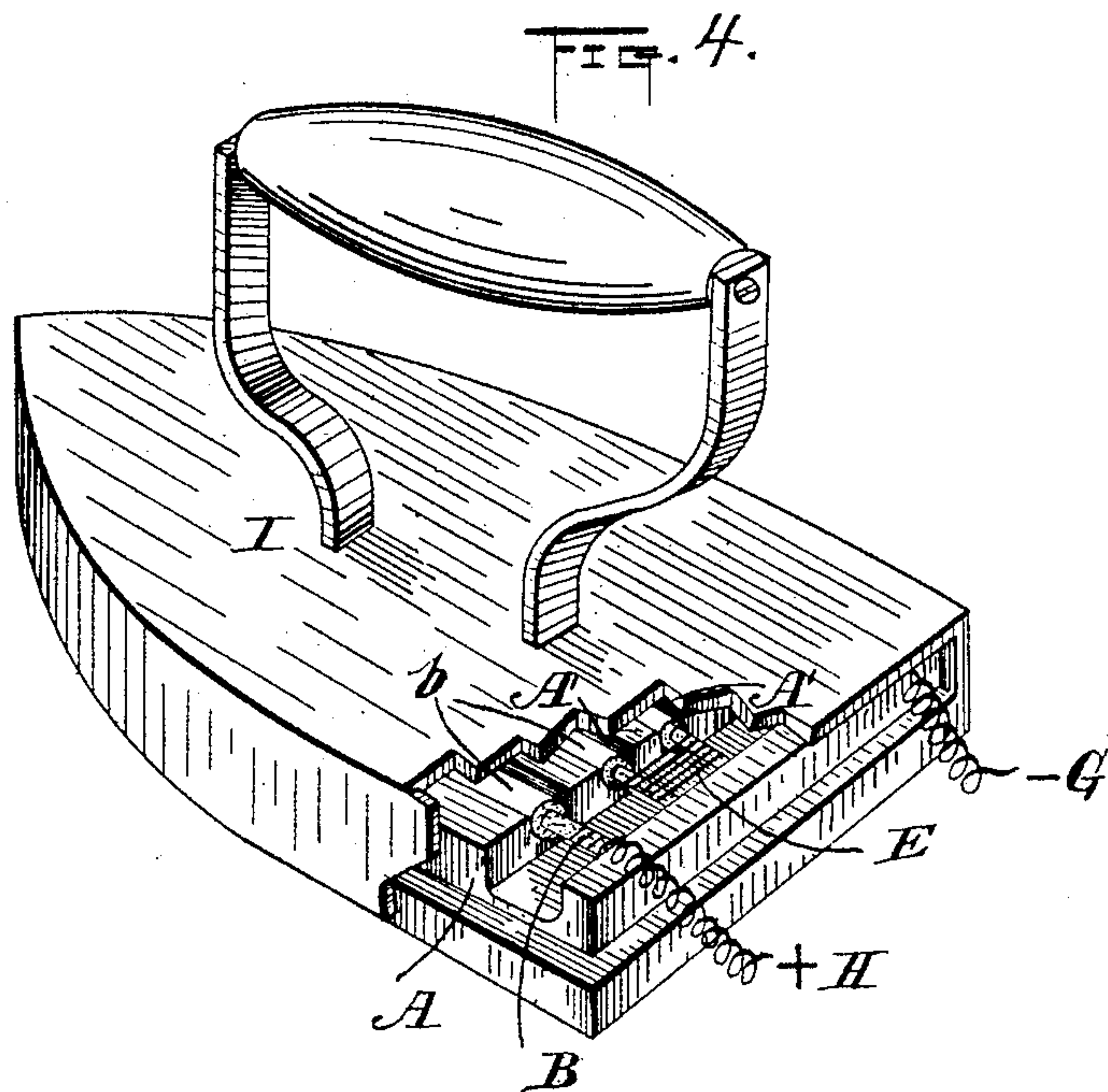
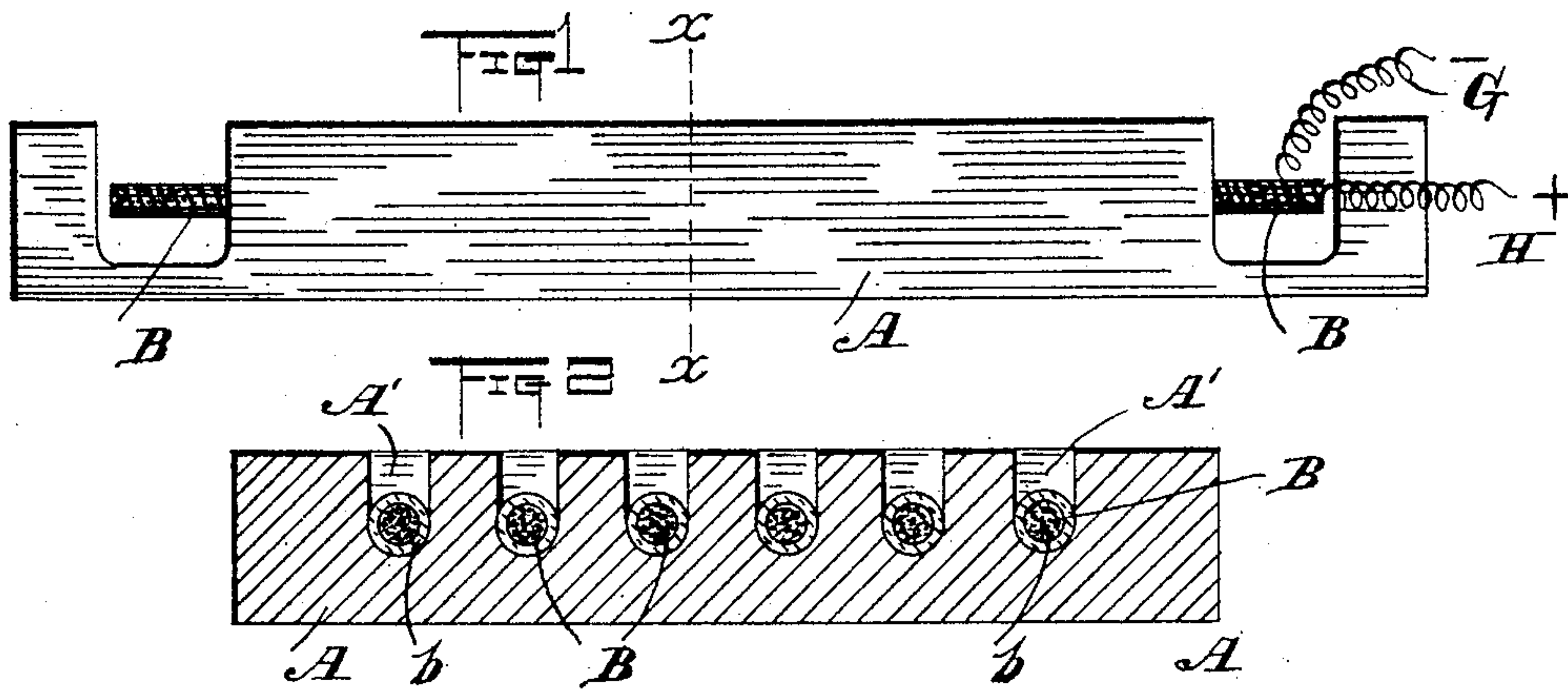
(No Model.)

S. B. JENKINS.

ELECTRIC HEATER FOR FLAT IRONS OR OTHER ARTICLES.

No. 497,794.

Patented May 23, 1893.



WITNESSES
H. Harvey Muzzy
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UNITED STATES PATENT OFFICE.

SAMUEL B. JENKINS, OF BOSTON, MASSACHUSETTS, ASSIGNOR TO THE
AMERICAN ELECTRIC HEATING COMPANY, OF SAME PLACE.

ELECTRIC HEATER FOR FLAT-IRONS OR OTHER ARTICLES.

SPECIFICATION forming part of Letters Patent No. 497,794, dated May 23, 1893.

Application filed December 5, 1892. Serial No. 454,132. (No model.)

To all whom it may concern:

Be it known that I, SAMUEL B. JENKINS, a citizen of the United States, residing at Boston, in the county of Suffolk and State of Massachusetts, have invented certain new and useful Improvements in Electric Heaters for Flat-Irons or other Articles; 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.

The object of this invention is to provide an improved electric heater of that class in which a series of metallic and non metallic elements in alternation compose the resistance, the same being especially adapted to flat-irons and other hollow articles and utensils.

The said invention consists chiefly in the peculiar means of coupling the ends of the resistance bars, and in the combination of the same with the necessary circuit connections and a grooved removable plate, which receives the said bars all substantially as hereinafter set forth and claimed.

In the accompanying drawings, Figure 1 represents a side elevation of such a plate and its attachments. Fig. 2 represents a transverse section through the same on the line $x-x$ of Fig. 1. Fig. 3 represents a similar view of a wire coupling for the same the ends of a pair of bars appearing also; and Fig. 4 represents a perspective view of a flat-iron, partly broken away, showing the heater within.

A designates the plate, which may be of any material having sufficient strength and stiffness and is given an outline suitable for entering and fitting the interior of a flat-iron when used for that purpose. A series of parallel longitudinal grooves A' formed in the upper face of this plate will receive correspondingly arranged rods or bars B of graph-

ite, these being surrounded by insulating envelopes b , if the plate A is a conductor of electricity. Otherwise, the bars need no insulation besides what the plate itself affords. The ends of the said bars or rods are connected in pairs by metallic couplings to make a continuous resistance as shown; each coupling being a winding of wire E about the ends of the rods, a block F of metal being inserted between them. Wires G H are connected to the ends of the resistance series thus formed and are themselves in an electric circuit, so that the said resistance is introduced into that circuit also, with the usual heating effect. As shown, the plate is introduced with its attachments into a hollow flat iron body I; but it may be used independently or in any other connection or relation where applicable.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent is—

1. In combination with a grooved plate and a series of graphite bars set into the grooves thereof, couplings consisting each of an interposed block and a winding of wire for electrically connecting the ends of the said bars, and circuit wires connected to the ends of the resistance series thus formed substantially as set forth.

2. A pair of bars of graphite and electrical circuit connections in combination with an end-coupling consisting of a winding of wire and an interposed metallic block substantially as set forth.

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

SAMUEL B. JENKINS.

Witnesses:

WALTER A. BROWNE,
PELATIAH R. TRIPP.