

A. S. CUBITT.
ELECTRIC FLAT IRON.
APPLICATION FILED OCT. 29, 1910.

1,019,426.

Patented Mar. 5, 1912.

Fig. 1.

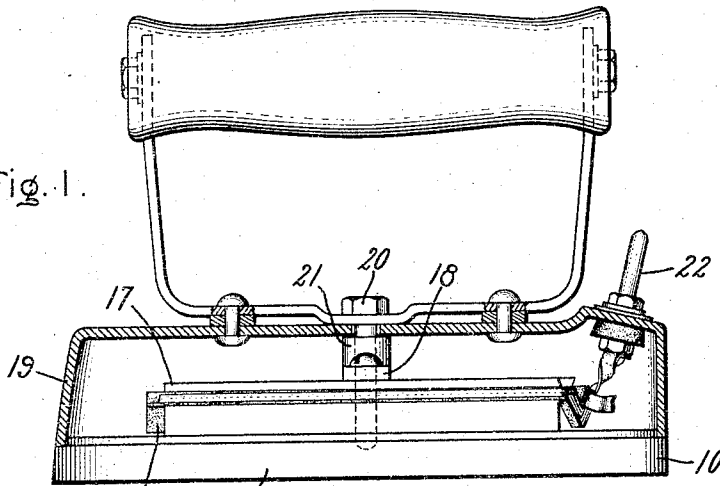


Fig. 2.

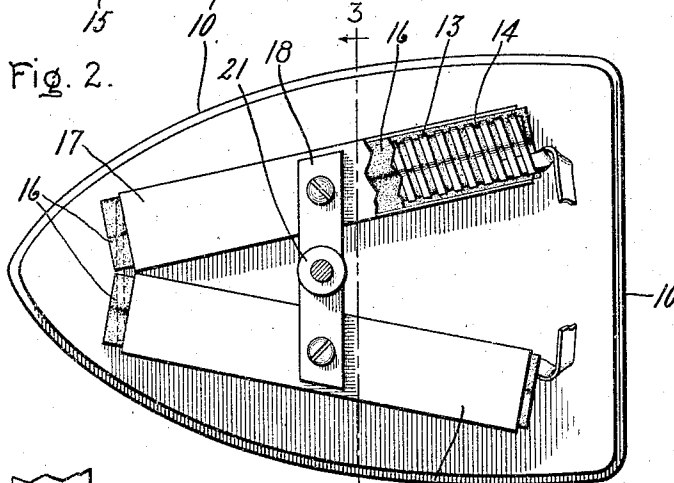


Fig. 3.

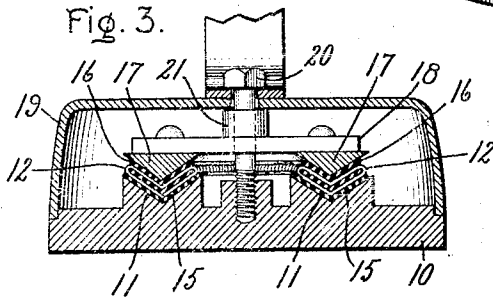


Fig. 4.

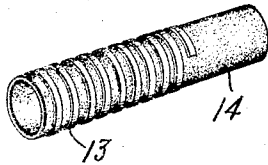
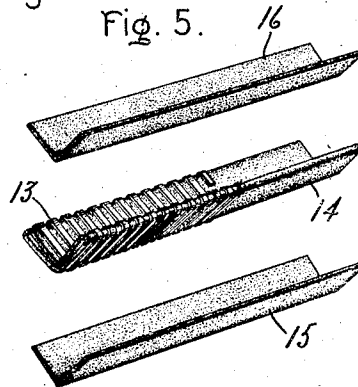


Fig. 5.



Witnesses:

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by *Albert H. Davis*
His Attorney.

UNITED STATES PATENT OFFICE.

ARCHIBALD S. CUBITT, OF PITTSFIELD, MASSACHUSETTS, ASSIGNOR TO GENERAL ELECTRIC COMPANY, A CORPORATION OF NEW YORK.

ELECTRIC FLAT-IRON.

1,019,426.

Specification of Letters Patent.

Patented Mar. 5, 1912.

Application filed October 29, 1910. Serial No. 589,688.

To all whom it may concern:

Be it known that I, ARCHIBALD S. CUBITT, a subject of the King of Great Britain, residing at Pittsfield, county of Berkshire, State of Massachusetts, have invented certain new and useful Improvements in Electric Flat-Irons, of which the following is a specification.

This invention relates to electrically heated devices such as flat-irons and the like, and has for its object the provision of a device of this character which is constructed in such a way as to provide a maximum efficiency with the greatest degree of simplicity. In the construction of devices of this character it is common to clamp or otherwise secure a heating unit to the body of the iron to heat the same.

One of the objects of my invention is to so arrange the parts that the heating unit will be firmly secured against displacement into intimate thermal relation with the body of the iron, the parts being so constructed and arranged that the labor of constructing and assembling them will be reduced to a minimum.

Other objects of my invention will appear in the course of the following specification, in which I have disclosed my invention embodied in concrete form for purposes of illustration.

In the accompanying drawing disclosing my invention, Figure 1 represents a side view of my flat-iron partly in section; Fig. 2 is a plan view of the same with the cover removed, certain parts being broken away to show the structure; Fig. 3 is a section on the line 3—3 of Fig. 2 looking in the direction of the arrows; Fig. 4 shows a heating unit before it is flattened; and Fig. 5 is a disassembled view of the flattened unit and insulating shields.

Referring to the drawings, 10 represents the body of the iron. This may be of any desired form, and for purposes of illustration I have shown the common form of flat-iron having the heating units converging toward the toe. The body of this iron is provided with two grooves 11 which I have shown as V-shaped and converging toward the point of the iron. These grooves are for receiving the heating unit 12, which is shaped to conform to the shape of the groove. The

heating unit is preferably flattened and then bent to the V-shape as shown. One way in which this unit may be constructed, I have shown in the drawings. This consists in winding a resistance conductor 13 upon a tube 14 of the insulating material, such as pasted mica or the like. This tube is then flattened onto itself and bent to suitable form, as shown in Fig. 5. One of these units 12 is then inserted in each of the grooves 11 and is insulated from the metal by a strip of insulating material 15, which may also be mica. On the top of the unit is placed a similar strip of insulating material 16. The units are held in the grooves by means of clamping blocks 17 which are likewise V-shaped as shown. These blocks are secured together by the member 18 which connects them at about the middle of the iron. The cover 19, which is placed over the unit, is held in position by a bolt 20 which extends through the member 18 and screws into the body portion 10. A collar 21 is slipped over the bolt between the cover and the member 18 so that when the bolt is screwed down, the member 18 is forced downward and tightly compresses the units in their grooves. In this way the units are securely held against movement in any direction and an exceedingly good contact is made between the unit and the body of the iron. The amount of machine work necessary in an iron constructed in this way is exceedingly small and the assembling is accomplished without difficulty as there are no parts requiring accuracy of adjustment and displacement of the parts is impossible. A single bolt suffices to hold all the parts in place, thereby reducing both the cost of assembling and the cost of material.

The units which I have described are very simple to make but it is obvious that my invention is in no sense limited to this particular type of unit. The two units in the present case are connected together at the point of the iron and the terminals are brought out to the terminal pins 22.

While I have described my invention as embodied in concrete structure for purposes of illustration, it should be understood that I do not limit my invention thereto, since various modifications thereof will suggest themselves to those skilled in the art with-

out departing from the spirit of my invention, the scope of which is set forth in the annexed claims.

What I claim as new and desire to secure by Letters Patent of the United States, is,—

1. An electric flat-iron comprising a body portion having a groove therein, a flat heating unit bent to conform to the shape of the groove, and means for clamping the unit into the groove.

2. An electric flat-iron comprising a body portion having a V-shaped groove therein, a flattened heating unit bent to conform to the shape of the groove, and means for clamping the unit into the groove.

3. An electric flatiron comprising a body portion having a tapered groove therein, a flat heating unit within said groove and a clamping block conforming to the shape of the groove engaging the unit to press it into the groove.

4. An electric flat-iron comprising a body portion having a V-shaped groove therein, a similarly shaped unit for said groove, and

a V-shaped block for clamping the unit into the groove.

5. An electric flat-iron comprising a body portion having a pair of tapered grooves, a flattened heating unit in each groove conforming to the shape thereof, a clamping block for each unit, and a member engaging both of said blocks simultaneously to clamp the units in place.

6. An electric flatiron comprising a body portion having a groove therein, a heating unit in said groove consisting of a tube of insulating material having a resistance conductor mounted thereon and flattened onto itself, and a clamping block conforming to the shape of the groove for pressing the unit into the groove.

In witness whereof, I have hereunto set my hand this 26th day of October, 1910.

ARCHIBALD S. CUBITT.

Witnesses:

H. D. LARAWAY,
B. GENIE.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."