

J. COLLICOTT.  
IRON HEATED BY ELECTRICITY.  
APPLICATION FILED JUNE 8, 1909.

942,308.

Patented Dec. 7, 1909.

2 SHEETS—SHEET 1.

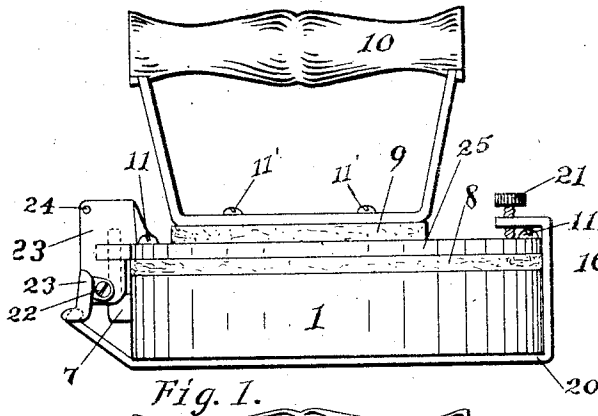


Fig. 1.

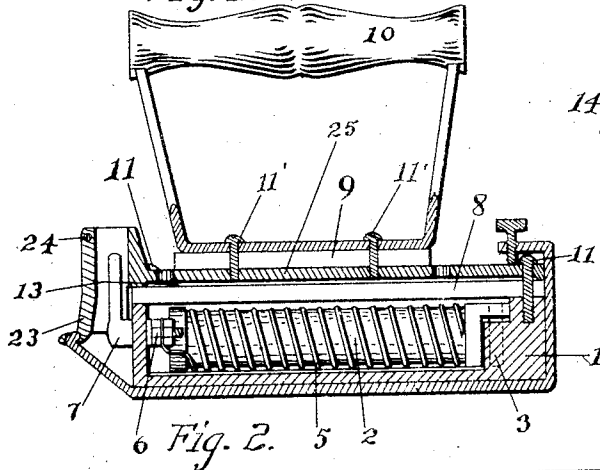


Fig. 2.

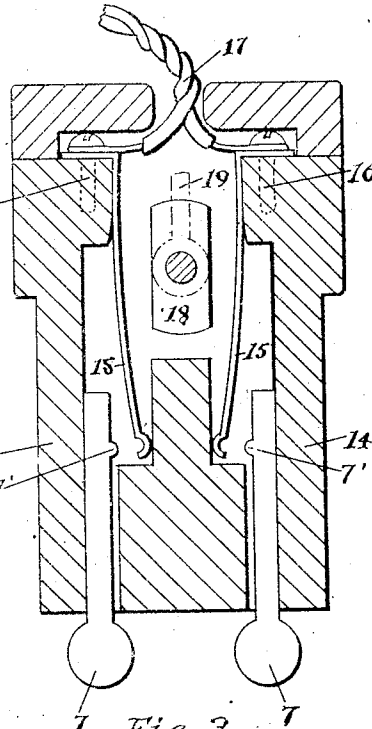


Fig. 3.

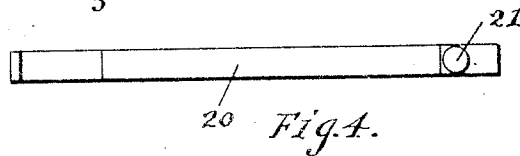


Fig. 4.

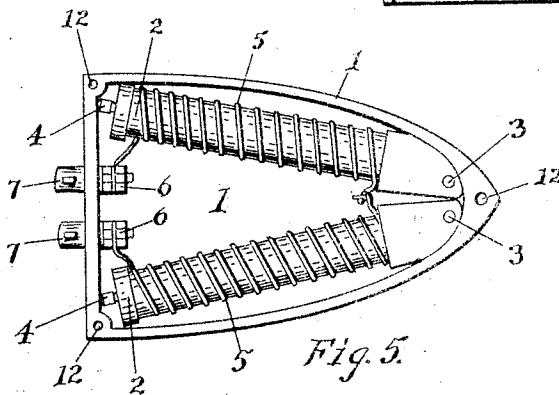


Fig. 5.

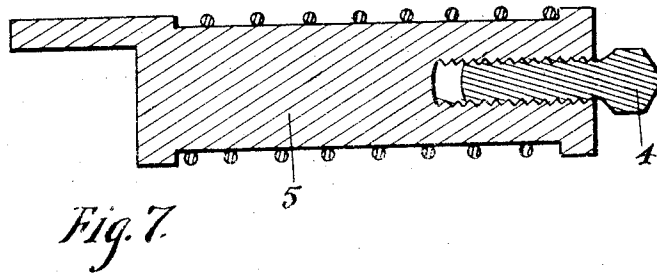
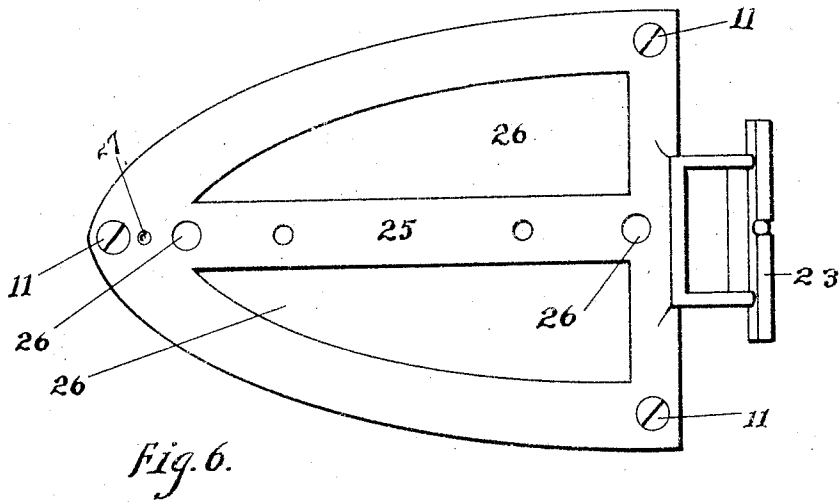
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C. W. Simpson  
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# UNITED STATES PATENT OFFICE.

JOHN COLLICOTT, OF SALT LAKE CITY, UTAH.

IRON HEATED BY ELECTRICITY.

942,308.

Specification of Letters Patent.

Patented Dec. 7, 1909.

Application filed June 8, 1908. Serial No. 506,881.

To all whom it may concern:

Be it known that I, JOHN COLLICOTT, a citizen of the United States, residing at Salt Lake City, in the county of Salt Lake and State of Utah, have invented certain new and useful Improvements in Irons Heated by Electricity, of which the following is a specification.

My purpose is to provide an electrically heated flat iron, the heating unit for which is adjustable therein. And an iron to the terminals of which the electric wires are locked by the means that form the electrical connection. And one by which a seam may be pressed without pressing the other part of the fabric. These objects I attain by the device illustrated in the accompanying drawings in which similar figures of reference indicate like parts throughout the several figures.

Figure 1 is an elevation. Fig. 2 is a vertical section. Fig. 3 is an enlarged detail of the locking switch. Fig. 4 is a plan of the seam-press removed. Fig. 5 is a plan with the handle and seam press removed. Fig. 6, is a plan of the covering. Fig. 7, is a vertical section of one of the heating units.

The iron 1 has the interior chambered out, within which is adjustably secured the heating units 5. The said units are secured therein by their points being pivoted on the pins 3, which pins 3 are rigidly secured near the point of the iron and within said chambered interior. Within the other end of each of said heating units are threadably secured the adjusting set screws 4. The purpose of said screws being threadably connected to the said units 5, and the pivot connection on the other end of each of said units, is, that said heating units may be adjusted within the interior of said iron, to supply heat from said units to different parts of the said iron, and to firmly secure said units within the chambered interior of said iron, and also in connection with the pivotal arrangement on pins 3, they permit the easy removal of the heating units for repairs, such as rewinding. The set screws are threaded to enter threaded holes in the cores of the heating units and act in coöperation with the pivotal arrangement of said cores in the following manner; the set screws 4 seat against the end of the iron, and turn out of the cores to seat, and into the cores to release. As the pivotal end of the cores turn on the pins the other end makes the most change in any adjust-

ment made, and when the desired position of the heating units is secured by moving them manually, the turning out of the set screw in each core will seat the other end of said screw against the inner side of the chambered interior of the iron and thus firmly hold the heating unit; and at the same time press the pivotal end of the core against the iron, insuring the more rapid and effective heating at the point of the iron. Each heating unit is composed of a core and a resistance wire spirally placed thereon. Said wires are connected near the point of the iron and are secured to the terminals 7 by the nuts 6. The iron 1 is provided with a perforated covering 25 for said interior, which is secured to the base of said iron by the bolts 11 threadably secured in holes 12; between which perforated covering 25 and the base of the iron is placed a heat proof insulator 8, and between said insulator and said perforated covering is the air space 13, opening through the said perforations 26 to the atmosphere. The handle 16 of the iron is secured to the covering 25 by the bolts 11'. A similar heat proof insulator 9 may be provided between the covering and the handle of the iron. On the rear of said perforated covering 25 is hinged, by the pivot pin 24, the rest member 23, which rest member protects the terminals 7 and furnishes a laterally disposed base on which the iron may be rested when in a vertical position. The hinged appliance is to enable the operator to remove the terminals if, for any reason, it should be desired. This hinged rest member 23 is provided with a spring-controlled pin 22 which holds it firmly when placed in position.

On each terminal is provided a lug 7'. The electric wires 17 that carry the current, are secured, by the insulated screws 16, to a locking switch 14; also said screws 16 hold the locking springs 15, the lower ends of which are formed to engage the lugs 7' on the terminals 7, when they are thrown into engagement therewith by the switch 18 being turned by the lever 19 in either direction.

While both flanges of the seam presser turn inwardly, yet the fact that the iron is pointed in form at one end, allows the other end of the presser to engage in the seat provided therefor, and permits the presser to be turned horizontally into position, so the set screw 21 will seat in the hole near the

point of the covering 25. The seam press 20 is fitted to the face of the iron by one end hooking over the lower part of the hinged rest member 23 and a set screw 21 in the other end of said seam press being turned into a seat 27 provided in the covering 25 of said iron immediately back of screw 11 in the point of said iron. This seam press may be removed without detracting from the general utility of the iron when not desired for pressing seams.

When the iron is assembled as shown in Fig. 1 the locking switch 14 is pressed down on the terminals 7 firmly; and to heat the iron the switch 18 is turned by the lever 19 thus pressing the springs 15 in contact with said terminals. This completes the electric circuit and the iron will be heated throughout its face, and the locking spring so engaging the lugs 7' will prevent the breaking of the electrical connection by the manipulation of the iron and tension on the wire 17. Most electric irons provide for the electrical connections between the wires and the units by the contact formed by pressing the ends of the wires between the terminals, or around or over them, while in this iron the locking switch is placed over the terminals, but does not by such act form any electrical connection until the switch 18 is turned by the lever 19. This movement permits the contact by forcing the springs 15 outward at the bottom, and into such position that the grooves in the lower portion of said springs 15, engage the lugs of the terminals 7. Desiring special heat on the seam presser 20 the heating units may be adjusted and are thrown nearer each other than as shown in Fig. 5 by releasing set screws 4 and making the adjustment as desired and then tightening the set screws for holding them in the new position.

Having thus described my device I desire to secure by Letters Patent and claim:

1. In an iron of the class described, the combination, of a chambered base, heating units pivotally secured to the interior of said

base, a perforated covering for said base, and a hinged rest member secured to said covering, as and for the purposes described.

2. In an iron of the class described, in combination, the chambered base, heating units pivotally secured to the interior of said base, a covering for said base, a hinged member secured to said covering, and a seam press secured to said hinged member in contact with the face of the iron; as and for the purposes described.

3. In combination with an electrically heated iron a hinged terminal protector, a seam press secured to the lower part of said terminal protector that contacts with the face of the iron and is adjustably secured thereto; as and for the purposes described.

4. In combination with an iron, terminals secured thereto, lugs on said terminals, a locking switch adapted to be fitted thereover, springs secured to said locking switch; their lower ends adapted to engage said lugs, a switch to compress said springs, as and for the purposes described.

5. In an iron of the class described the combination of a chambered base, a perforated covering therefor, a rest member hinged to said covering, a heat-proof insulator between said base and said covering, an air space between said insulator and said covering, adjustable heating units within said chambered base, said units pivoted on pins at one end, set screws threadably secured in said units, terminals secured in said base with lugs thereon, a locking switch adapted to be fitted on said terminals, locking springs adapted to engage the lugs on said terminals, a switch adapted to set said springs and means for passing an electric current through said iron.

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

JOHN COLLICOTT.

Witnesses:

J. J. CORUM,  
A. H. CURRIER.