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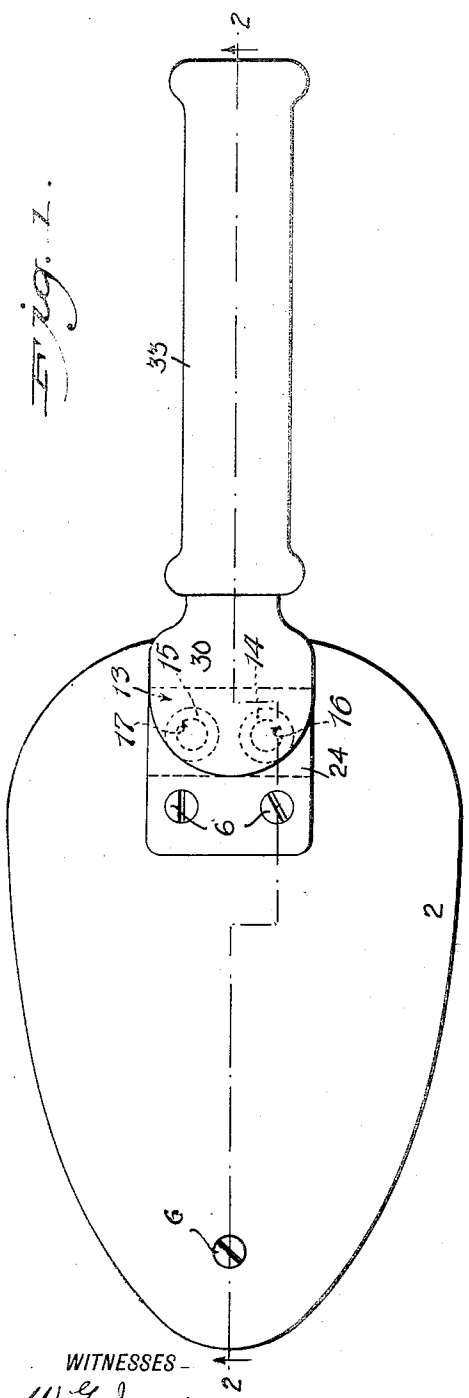
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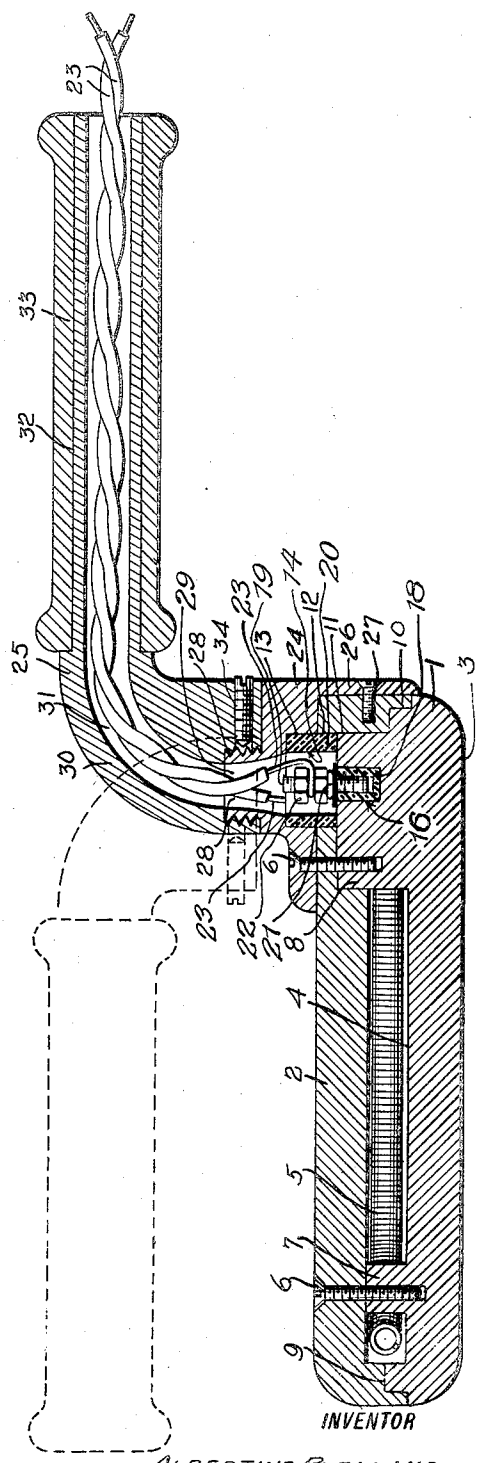
ELECTRIC IRON

Filed April 15, 1921

*Fig. 1.*



*Fig. 2.*



WITNESSES -  
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# UNITED STATES PATENT OFFICE.

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ELECTRIC IRON.

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**REISSUED**

*To all whom it may concern:*

Be it known that I, ALBERTINE RUELLAND, a citizen of the United States, and a resident of the city of New York, borough of Manhattan, in the county and State of New York, have invented a new and Improved Electric Iron, of which the following is a full, clear, and exact description.

This invention relates to electric irons. An object of the invention concerns the provision of an electric iron which is adapted efficiently to iron materials of delicate texture, such as velvets, satins, crêpes, chiffons, etc.

Another object resides in the provision of an iron which can be used as any ordinary iron and which is, at the same time, provided with means whereby it is particularly adapted for the ironing of the above-mentioned materials with a minimum liability of injury to the hands or person of the operator.

A further object resides in the particular construction and arrangement of parts which are hereinafter described and claimed and shown in the accompanying drawings.

In the operation of ironing delicate fabrics, such as satins, crêpes, chiffons, velvets, etc., it is a well-known fact that it is impossible to iron these materials except by running an iron over one face of the material. If, therefore, the material were placed on an ironing board or other surface in the usual manner, with this face upward, then the other face, which is of the most importance when the material is made into a dress or other garment, would be marred or injured by the pressure of the iron thereon and by contact with the supporting surface. Therefore, in order to avoid this injury, it has been heretofore customary to iron such surfaces on the desired face by merely running the iron over the surface while the garment or the fabric is supported from some suitable point. In the use of the ordinary iron, this operation requires that the iron be held in such an awkward and inconvenient manner that oftentimes the operator burns the hands.

My invention in general involves the provision of an iron electrically heated and of a suitable form and construction which is provided with a handle portion suitably attached thereto which is disposed in a plane apart from the plane of the heated surface and is adapted to swing around in this plane

and be adjusted in any position with respect to the body portion of the iron. This possible rotation of the handle portion permits it at times to extend in a direction away from the body portion, and at other times to extend in a direction over the body portion. In the first extended position of the handle, the handle can be gripped to manipulate the iron and, at the same time, the heating surface of the iron is at a maximum distance from the hand, whereby injury will not result from the operation of the iron in the manner above described. When the handle is swung in the other direction, to extend over the body portion, the handle can be gripped and the iron used as an ordinary iron with the application of any desired pressure thereto.

The invention is illustrated in the drawings, of which—

Figure 1 represents a plan view of the iron;

Figure 2 is a vertical longitudinal section taken through the iron and the handle.

The preferred form of my invention, as shown in the drawings, comprises an iron of any suitable size, weight or form, preferably somewhat of the form shown in the drawings, which comprises a body portion having a lower section 1 and an upper section 2. The lower section 1 is provided with a heating surface such as 3. Both portions of the body portion, particularly the lower portion, may be made of any suitable metal, such as steel or cast iron, as desired. The characteristics or qualities of the material of which the body portion may be made is determined by the working conditions and requirements desired of the iron. For convenience, the lower half 1 of the body portion will be called the heating portion, and the upper half 2 will be called the cover portion, although other terms could be used in connection therewith. The heating portion is provided with a recess, such as 4, in which a heating coil or resistance wire of any desired quality is disposed. This heating unit 5 is supported within and from the body portion of the iron in any well-known manner, as circumstances may designate. The cover portion of the iron is fastened to the heating portion by means of screws, such as 6. These screws are adapted to extend through suitable apertures in the cover portion and into apertures in bosses 7 and 8 suitably formed on and extending upwardly

from the heating portion 1 of the iron. The cover portion 2 and the heating portion 1 are provided with co-operating engaging shoulders which interlock with each other and hold the cover portion on the head portion. The contacting faces of these shoulders are represented by the numerals 9 and 10 in the figures. The cover portion is also provided with a suitable recess, such as 11, adapted to receive the boss 8 above mentioned. Above a portion of this boss 8 the cover portion is cut away in the form of an aperture 12 in which is located a porcelain block such as 13. This block is mentioned as being made of porcelain but any other suitable insulating material may be used. The porcelain block is provided with a pair of apertures or bores 14 and 15 which, when the block is in the recess 12 of the cover 2, align themselves with similar apertures, such as 16 and 17, in the top of the boss 8. These apertures 16 and 17 are lined with some suitable insulating material, represented by the numeral 18. This insulating material is bored out to receive the lower threaded ends of binding posts, such as 19. Insulating washers 20 are disposed on the upper surface of the boss 8 around the binding posts 19, and above these washers the ends, such as 21, of the heating unit or wire 5 are disposed in contact with the binding posts 19. Suitable adjusting and binding nuts 22 are threaded on the binding posts 19, and terminal wires, such as 26, are connected thereto in any well-known manner.

On the top of the cover portion adjacent the insulating block 13 there is disposed a base portion such as 24. This base portion provides a suitable support for a handle such as 25. The base portion is provided with apertures through which certain of the above mentioned screws, such as 6, extend. The base portion is provided also with a downwardly projecting flange portion 26 which extends along the rear edge of the cover portion and which is connected thereto by suitable screws such as 27. On its upper face the handle base portion 24 is provided with an exteriorly threaded projecting boss 28. The electrical heating element is disposed within the body portion, substantially beneath the boss 28. This boss 28 is bored, as at 29, to permit of the passage of the terminal wires 23 therethrough. Part of the handle, in the form of an elbow portion 30, is bored, as at 31, throughout its length, and at its end is interiorly threaded to be received on the boss 28. The main body portion of the handle is in the form of a horizontally extending portion 32 hollowed out to permit of the passage of the terminal wires above mentioned and provided with an embracing sleeve 33, which may be of any suitable material, such as wood. The base portion 24 and the elbow portion 30, including the han-

dle portion 32, may be made of any suitable material, such as nickel steel.

In order to adjust the handle portion in any desired position with respect to the base portion 24 and, also, the body portion of the iron, I have provided a bore 34 extending into the side of the elbow portion 30, in which is disposed a set screw, such as 34, the inner end of which is pointed and adapted to engage with the threads on the boss 28 so as to lock the elbow portion 30 in any desired position with respect to the boss 28. In the position shown in Figs. 1 and 2, the handle portion, by reason of the elbow, is adapted to extend in any direction in a plane parallel with and above the plane of the heating surface 3. As shown in full lines in Figs. 1 and 2, the handle portion extends in this plane in a direction rearwardly from the body portion. In this form and position of the handle portion, the handle is adapted to be gripped thereby and be used to press out and iron the delicate fabrics above mentioned with a minimum liability of injury to the hands of the operator, since the heating surface, as will be observed, is disposed at a maximum distance from the hands of the operator. However, under certain circumstances, it may be desirable to use this iron in the manner in which an iron is ordinarily used. When this is desired, it is merely necessary to release the set screw 34, which permits the handle to be moved around to the position shown in dotted lines in Fig. 2, whereupon the set screw 34 can be tightened again to hold the handle in this position. In this position the handle portion extends from one end of the body portion over the remaining part of the body portion, so that the iron can be used in the ordinary manner.

I have illustrated certain forms and arrangements and have mentioned certain materials of which the various parts of the iron above described are made, but it is understood that any desired material can be used in accordance with the circumstances under which the iron is to be used, and that different sizes, shapes and weights of the parts can be adopted at will.

What I claim is:

1. An electric iron which comprises a body portion, a heating element within said body portion, a hollow boss disposed on the rear upper surface of the body portion, terminals for the heating element, said element disposed within the body portion substantially beneath the boss, a hollow handle provided with an elbow engaging the boss, circuit wires extending through the handle and engaging with the terminals, and means for adjusting the handle in a plurality of positions with respect to the body portion.

2. An electric iron which comprises a body portion, an adjustable hollow elbow

connected to the upper rear end of the body portion, and a hollow handle portion connected to the free end of the elbow and adapted to extend rearwardly from the body portion in one position of the elbow, and electric circuit wires carried in protective relation within said handle.

3. An electric iron, which comprises a body portion, a threaded boss on the body

portion, a handle having threaded engage- 10  
ment with the boss to permit adjustable po-  
sitioning of the handle thereon, and a set  
screw on the handle disposed in a bore  
therein, said set screw adapted to be adjust- 15  
ed to engage with the threads on the boss to  
lock the handle in any desired position.

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