Dec. 16, 1924. 1,519,341

F. G. SMITH

SUSPENDING MEANS

Filed May 11, 1923

Fig. 2.

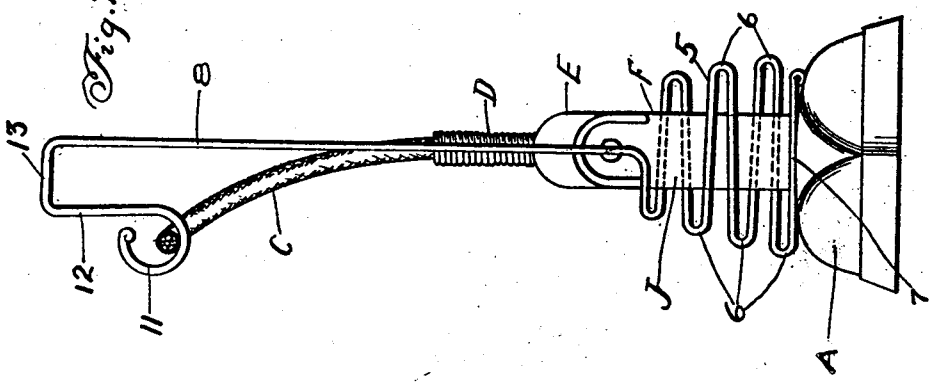
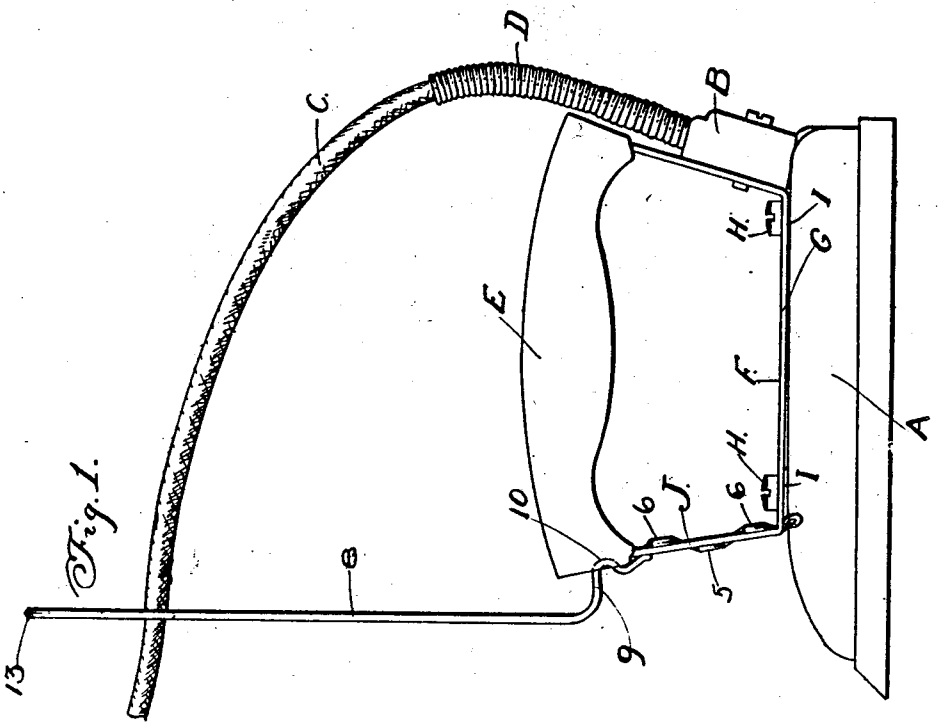


Fig. 1.



Frances G. Smith,
INVENTOR.

BY Victor J. Evans,
ATTORNEY.

WITNESS: J. B. White

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UNITED STATES PATENT OFFICE.

FRANCES G. SMITH, OF BROOKLYN, NEW YORK.

SUSPENDING MEANS.

Application filed May 11, 1923. Serial No. 638,321.

To all whom it may concern:

Be it known that I, FRANCES G. SMITH, a citizen of the United States, residing at Brooklyn, in the county of Kings and State of New York, have invented new and useful Improvements in Suspending Means, of which the following is a specification.

This invention relates to suspending means for the wire or insulated cord of electrically heated sad irons. The invention more particularly pertains to an improvement in the construction and arrangement of my invention shown and described in my co-pending application Serial No. 625,090, filed March 14th, 1923.

An essential feature of the invention resides in the provision of a novel device of this character which can be instantly applied to or removed from electrically heated sad irons of well-known construction without requiring any alterations therein.

A further object of the invention is to provide a device of this character which when applied to the iron may be freely separated therefrom and at the same time held in a firm position and against accidental derangement while in use.

Another object of the invention is to provide a device of this character which may be related to the handle of the iron so as to prevent it from coming in contact with the hand while the iron is being used, thereby preventing burning of the hand by the action of heat which is conducted to the device through its intimate contact with metallic parts of the iron.

Another object of the invention is to provide a device of this character which will form in the insulated cord or wire a definite loop over the handle of the iron and with such respect thereto that the length of the wire will be disposed to one side of the path of movement and thereby positively prevent the heated iron from burning the insulation of the wire which would cause a short circuit and render the iron temporarily useless.

Another object of the invention is to provide a device of this character which will be simple, strong and durable and very inexpensive of manufacture.

With these and other objects in view, the invention resides in certain novel construction and combination and arrangement of parts, the essential features of which are hereinafter fully described, are particularly pointed out in the appended claims, and are illustrated in the accompanying drawing, in which:—

Figure 1 is a side view of an iron, showing the application of my invention thereto.

Figure 2 is a front view thereof.

The electrically heated sad iron A shown herein is of usual well-known construction and is provided with a socket connection B for the reception of the terminals of an insulated cord C. This cord is preferably provided with a spring coil D which extends in an upward direction from the socket B to a point slightly above the rear end of the handle E of the iron. The purpose of this arrangement will be better described as the description goes forward. The handle E is supported from a substantially U-shaped bracket F having a base portion G secured by screws H, H, to the lugs I, I of the foot of the iron. This spaces the horizontal portion G from the upper surface of the foot as clearly shown in the drawings.

My improved cord suspending device is preferably formed from a single length of wire having an attaching portion 5 bent in serpentine or sinuous manner to constitute a plurality of resilient clips 6. These clips are positioned with respect to each other so that they may be laterally separated as shown in Figure 1. The reason for this construction is to permit the portion 5 to be laterally shifted into operative position against the forward upright J of the support F, permitting said upright to be sandwiched or clamped between the respective clips 6. This causes the device to be firmly secured in an applied position. It also enables the user to quickly apply the device to the iron or remove the same therefrom as the occasion necessitates.

The lower free terminal 7 of the wire is adapted to be extended into the space between the base G of the support F and the upper surface of the foot of the iron as clearly shown in Figure 1. This terminal co-acts with the clips to further secure the device against accidental derangement under the weight of the supported cord C.

The device is provided with a substantially vertical arm 8 connected to a portion 5 by means of an offset branch 9 which yieldingly bears at 10 against the forward end of the handle E. This provides additional means for firmly holding the device in an applied position upon the iron and incidentally it

projects the arm 8 to a point in advance of the front end of the handle E so as to hold the arm against contacting with the hand when gripping the handle E. The construction of the device is such that it resists any great amount of heat by radiation from the iron but in extreme cases due to overheating of the iron should the arm 8 become uncomfortably hot to the hand it is disposed where it cannot come in contact therewith.

The arm 8 rises to a suitable point above the handle E so that the insulated cord C can be looped over the handle from the rear of the iron and the cord arranged in the eye 11 of the arm. This eye is carried by a depending extension 12 which is offset at 13 from the upper end of the arm 8 as clearly shown in Figure 2. In this manner the cord is disposed at one side of the path of movement of the iron so as to positively prevent the free end of length of the cord from sagging to a position where the hot iron might accidentally engage therewith and burn the insulation of the wire. To the best of my knowledge it is new and novel to provide a cord suspending means for electric sad irons which will loop the insulated wire over the handle and position the wire at a point laterally of the foot of the iron. The reason for this construction is to definitely hold the wire against confusing contact with the hand of the user during the ironing operation and at the same time position the wire where it can come into serious contact with the hot foot of the iron.

While I have described what I deem to be the most desirable embodiment of my invention, it is obvious that many of the details may be varied without in any way departing from the spirit of my invention, and I therefore do not limit myself to the exact details of construction herein set forth nor to anything less than the whole of my invention, limited only by the appended claims.

What is claimed as new is:—

1. An electrically heated sad iron provided with a socket connection at a point rearwardly of the handle, an insulated conductor cord operatively connected with said socket provided with an embracing spring coil serving to permit the conductor to be definitely arranged and maintained in looped formation above the handle, and means positioned at the front of the iron and co-acting with said conductor and said coil and serving as a guide for the conductor, said means including a plurality of resilient clips for engagement with the forward branch of the handle support.

2. An electrically heated sad iron provided with a socket connection at a point rearwardly of the handle, an insulated conductor cord operatively connected with said socket provided with an embracing spring coil serving to permit the conductor to be definitely arranged and maintained in looped formation above the handle, and means positioned at the front of the iron and co-acting with said conductor and said coil and serving as a guide for the conductor, and provided with a lateral offset eye in which the conductor is mounted, and a plurality of resilient clips for engagement with the forward branch of the handle support.

3. A cord suspending means for electrically heated said irons comprising an arm having a cord guide at one end and a resilient portion at its opposite end, the latter consisting of mating relatively separable parts for operative engagement with the handle support of the iron.

4. A cord suspending device for electrically heated sad irons comprising an arm having a number of resilient clips constituting an integral part of the arm and adapted to engage with the forward branch of the handle support, and a laterally offset portion at the opposite end of the arm.

5. As a new article of manufacture, a cord suspending device for electrically heated sad irons having an eye at one end and a plurality of resilient clips at its opposite end.

6. As a new article of manufacture, a cord suspending device for electrically heated sad irons having an eye at one end and a plurality of resilient clips at its opposite end, said clips positioned relatively so that the handle support of the iron may be sandwiched between the respective clips to secure the device in its applied position.

7. A cord suspending device for electrically heated sad irons comprising an arm having means for the operative accommodation of the conductor cord, a resilient attaching part at the base of the arm adapted for connection with the handle support, and an offset branch connecting the arm with said resilient portion and adapted to yieldingly engage against the forward end of the handle.

8. A cord suspending device for electrically heated and irons provided with a plurality of super-posed resilient attaching clips for connection with the handle support of the iron.

9. A cord suspending device for electrically heated sad irons comprising an arm having an attaching end bent in serpentine manner to constitute clamping parts for connection with the handle support of the iron.

In testimony whereof I have affixed my signature.

FRANCES G. SMITH.