A. J. SHIRK AND S. COHEN.

ELECTRIC PRESS IRON.

APPLICATION FILED APR. 15, 1920.

1,426,015. Patented Aug. 15, 1922.

Fig. 1,

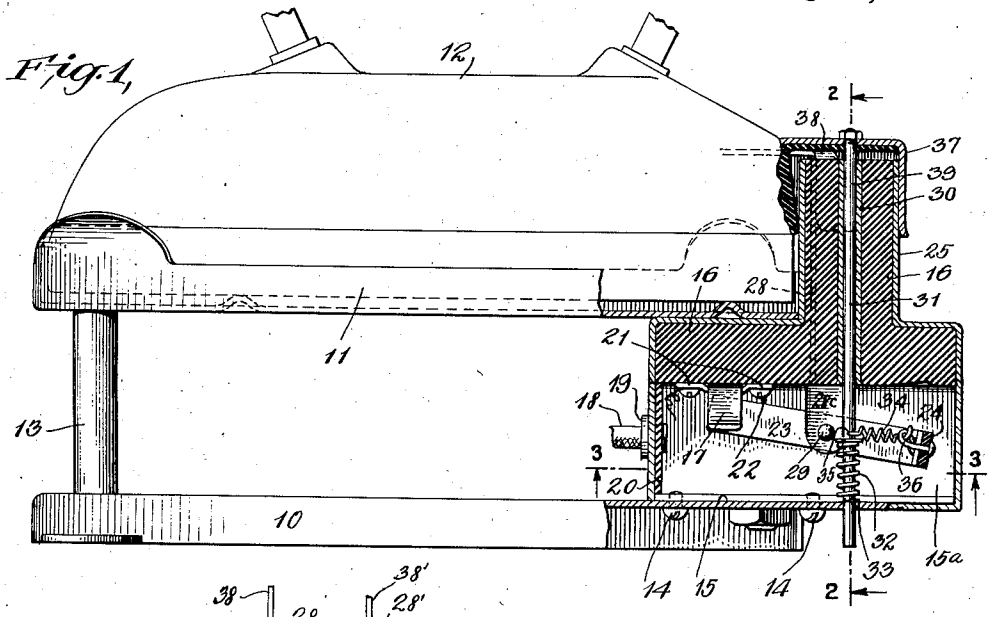


Fig. 2,

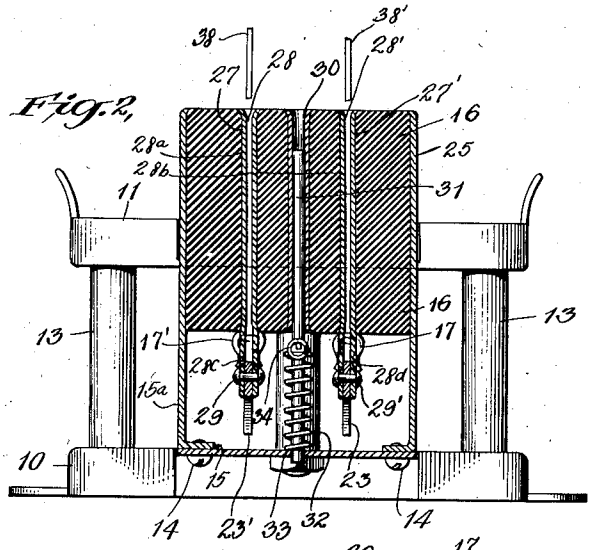
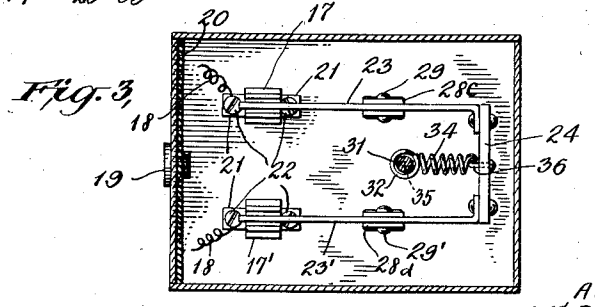


Fig. 3,



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ART J. SHIRK AND SOLOMON COHEN, OF NEW YORK, N. Y., ASSIGNORS TO ABRAHAM S. ISERSON, OF NEW YORK, N. Y.

ELECTRIC PRESS IRON.

1,426,015. Specification of Letters Patent. Patented Aug. 15, 1922.

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To all whom it may concern:

Be it known that I, ART J. SHIRK and SOLOMON COHEN, citizens of the United States, and residents of the city of New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Electric Press Irons, of which the following is a specification.

This invention relates to electric press irons and heating means therefor. One of the objects of this invention is to provide a device of the above type characterized by simplicity of construction in a very high degree.

Another object is to provide a practical device of the above character which shall be sure and efficient in its operation.

Other objects will be in part obvious and in part pointed out hereinafter.

Certain features herein shown and described are shown, described and claimed in our co-pending applications Serial Nos. 345,328, 354,616, 363,913, and 370,496 filed in the United States Patent Office December 16, 1919, January 28th, 1920, March 6th, 1920, and April 1st, 1920, respectively, and accordingly are not claimed herein.

With the above exception, the invention accordingly consists in the features of construction, combination of elements and arrangement of parts which will be exemplified in the apparatus hereinafter described and the scope of the application of which will be indicated in the following claims.

In the accompanying drawings, in which is shown one of various possible illustrative embodiments of this invention.

Fig. 1 is an elevational view of apparatus embodying our invention with an iron in position on the stand and showing the quick-make and break device in "on" position and showing further the shielded actuating means of operating this device.

Fig. 2 is a detailed cross-sectional view cut along line 2—2 of Fig. 1 showing the sockets from the contact on the iron and the shielded actuating means centrally disposed relative to the sockets; and

Fig. 3 is a detailed cross-sectional view cut along line 3—3 of Fig. 1.

Referring in detail to the drawing, the stand is seen to comprise a base 10 preferably of metal and a support 11 for the electric iron 12 or the like apparatus mounted on pillars 13 upstanding from said base. Extending from the base and secured thereto by means such as screws, clips or rivets 14 is a bottom or support 15 preferably of metal for the casing 15^a removably secured to said bottom and in which are mounted the quick-break switch mechanism and the shielded terminals which will now be described.

Secured within the casing adjacent the top thereof and insulated therefrom as by the block of insulation 16 are the switch clips 17, 17′ adapted to be connected to the electric supply as by means of the lead wires 18 which pass into the casing through a threaded bushing 19 suitably insulated from the casing as by the insulating lining 20. The switch clips may be secured in any suitable manner. Thus they may be provided with attaching flanges 21 through which pass the screws 22. Pivoted in operative relation to said switch clips in the manner hereinafter described is a pair of switch blades 23, 23′. These switch blades are jointed at their rear end by a cross-piece 24 of insulating material.

The casing is formed with a vertical hood 25 in which is embedded a block of insulating material 16 having formed therein a pair of spaced vertical recesses 27, 27′. Within each of these recesses is a metallic socket member 28, 28′ each formed preferably from two pieces of sheet metal 28^a and 28^b lining the walls of said recesses. The walls of the sockets 28, 28′ extend into the lower portion of the casing as at 28^c, 28^d and the switch blades are pivoted to the extension of said walls as at 29, 29′.

The means for simultaneously operating the switch blades 23, 23′ upon the iron being placed in position on the stand will now be described. Intermediate the two sockets 28, 28′ is a centrally located socket 30 within which operates the rod 31. This rod carries a compression spring 32 adapted to be compressed against the bottom of the casing as at 33. Another spring member 34 is centrally disposed with reference to the switch blades 23, 23′ and is secured at one end as at 35 to this rod 31 and at the other as at 36 to the fibre cross bridge 24. The iron is provided at the rear thereof with a hood extension 37 in which are mounted and suitably insulated therefrom the two contact members 38, 38′ adapted to enter

the sockets 28, 28'. Intermediate these contact members is provided a male actuating member 39 adapted to register in the intermediate socket 30 to push the rod 31 down against the tension in the spring 32 carried thereby.

The rod 31 is always shielded within its socket as is seen from the drawing and is so deep down in the hood as to minimize the possibility of tampering with the apparatus. The actuating means for operating the switch blades is extremely simple in construction involving only this spring controlled rod 31 in connection with the spring 32 and the cross bridge 24 and thereby considerably cheapening the manufacture and increasing the efficiency and effectiveness of the operation of the apparatus.

The operation of the stand and switch mechanism will now be understood. When the iron 12 is placed on the stand, the hood member 37 fits over the hood portion 23 of the casing 15ª and the contact members 38, 38' register in the sockets 28, 28'; at the same time the male actuating member 39 registers in the intermediate socket 30, and pushes down the rod 31 compressing the spring 32. This carries down the spring 34 and extends the same, thus transmitting a downward force to the cross bridge 24 and producing an upward moment to snap the blades 23, 23' into the contact clips or jaws 17, 17'.

It will thus be seen that there is provided apparatus in which the several objects of this invention are achieved and which is well adapted to meet the most severe conditions of practical use.

As various possible embodiments might be made of the above invention and as various changes might be made in the embodiment above set forth, it is to be understood that all matter herein set forth or shown in the accompanying drawings is to be interpreted as illustrative and not in a limiting sense.

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

1. In electric flat iron construction, in combination an iron containing an electric heating element, a stand provided with means for leading electric current thereto, means on said iron for leading current to said heating element, means on said stand for leading current into said current-leading means on said iron and means on the iron other than the current-leading means thereon for operating said current-leading means on said stand.

2. In electric flat iron construction, in combination an iron containing an electric heating element, a stand provided with means for leading electric current thereto, means on said iron and stand adapted to lead current into said iron upon said iron being placed in position on said stand, said means comprising circuit making means on said stand and actuating means for said circuit making means adapted to be operated by means on the iron other than the current-leading means thereon.

3. In electric flat iron construction, in combination an iron containing an electric heating element, a stand for said iron, means on the rear of said stand for leading electric current thereto and means on the rear of said iron adapted to be disposed in operative relation to said means on said stand to lead current into said iron upon the iron being placed in position on said stand, said means on said stand comprising contact sockets, means for leading current to said sockets, and said means on said iron comprising contact members adapted to enter said sockets and means other than said contact members for operating said means for leading current to said sockets.

4. In electric flat iron construction, in combination an iron containing an electric heating element, a stand for said iron, means on the rear of said stand for leading electric current thereto and means on the rear of said iron adapted to be disposed in operative relation to said means on said stand to lead current into said iron upon the iron being placed in position on said stand, said means on said stand comprising contact sockets, means for leading current to said sockets, and said means on said iron comprising contact members adapted to enter said sockets and means other than said contact members and coacting therewith for operating said means for leading current to said sockets.

5. In combination with an electric flat iron or the like apparatus having contact members thereon, an electric heating stand for said iron comprising a support, an automatic switch mechanism for connecting the electric supply to the iron comprising means for connecting said stand to the electric supply, and means adapted to be operated upon the iron being placed in position on the stand for leading the current from the stand to the heating element, said means comprising a movable member in actuating connection with said switch mechanism, and means for shielding said operating member.

6. In electric flat iron construction, in combination, an iron containing an electric heating element, a stand for said iron, means on the rear of said stand for leading electric current thereto and means on the rear of said iron adapted to be disposed in operative relation to said means on said stand to lead current into said iron upon the iron being placed in position on said stand, said means on said stand comprising contact

sockets, a recess adjacent said sockets, means for leading current to said sockets, an actuating member in said recess of said last mentioned current-leading means and said means on said iron comprising contact members adapted to enter said sockets and an operating member adjacent thereto adapted to register in said recess to operate said actuating member.

7. In an electric heating stand for electric irons and the like apparatus, a quick-break switch mechanism comprising a pair of switch blades, an actuating member for said blades, and means on said actuating member for normally maintaining said switch blades in inoperative position adapted to be operated by said actuating member, said means comprising a resilient member carried by said actuating member and a resilient member secured thereto.

Signed at New York city, in the county of New York and State of New York.

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SOLOMON COHEN.