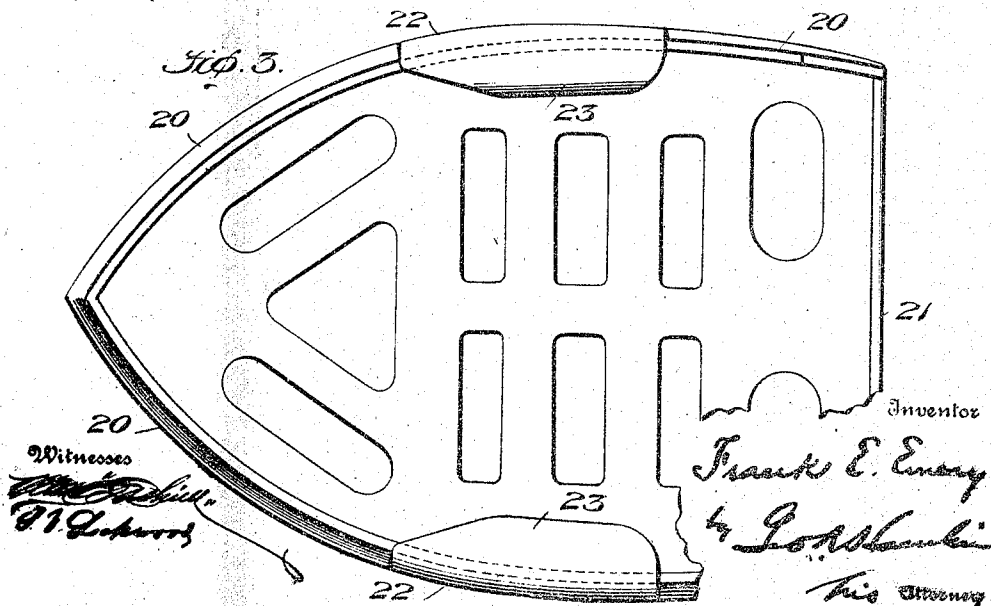
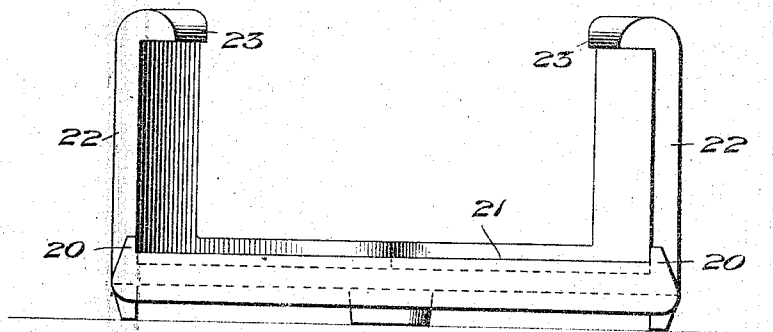
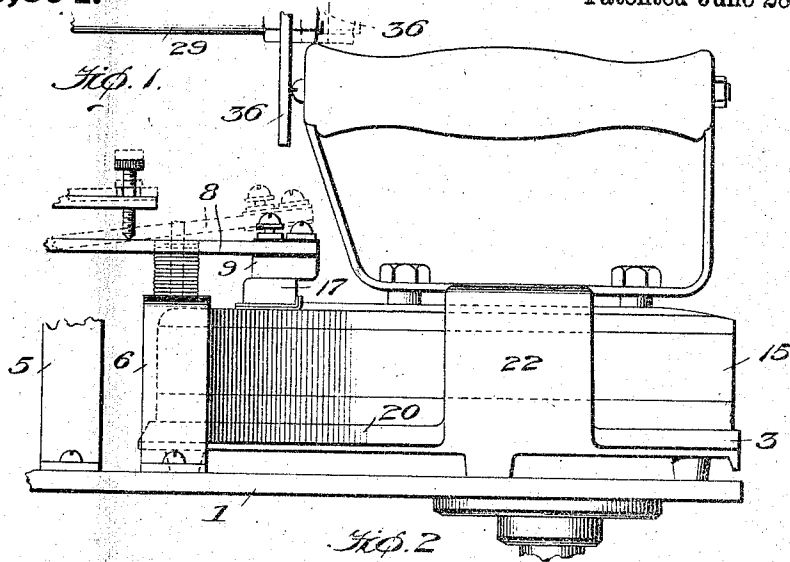


F. E. EMERY.
SHOE FOR PRESSING IRON STANDS.
APPLICATION FILED DEC. 3, 1908.

962,894.

Patented June 28, 1910.



UNITED STATES PATENT OFFICE.

FRANK E. EMERY, OF NEW YORK, N. Y.

SHOE FOR PRESSING-IRON STANDS.

962,894.

Specification of Letters Patent. Patented June 28, 1910.

Application filed December 3, 1908. Serial No. 465,881.

To all whom it may concern:

Be it known that I, FRANK E. EMERY, a citizen of the United States, residing at New York, county of New York, and State of New York, have invented certain new and useful Improvements in Shoes for Pressing-Iron Stands, of which the following is a specification.

My invention relates to shoes for pressing iron stands.

In certain earlier Patents Numbers 913,480 and 913,481, dated February 23, 1909, I have disclosed certain improvements in automatic switches and stands for pressing irons, such stands being provided with a shoe on which the pressing iron is placed, and switch mechanism is employed adapted to cooperate with contacts on the pressing iron when the latter is in proper position on the shoe so that the electrical current will traverse the heating element of the pressing iron. In placing the pressing iron on the stand, or in removing it therefrom, there is liability of accidental engagement of the contacts on the pressing iron or the iron with the switch mechanism, causing short circuiting.

The present invention has for its object the provision of a novel shoe for pressing iron stands, which is particularly designed for use in connection with stands and automatic switches made according to the inventions set forth in the aforesaid patents, which will prevent accidental engagement of the pressing iron contacts or the iron with the switch mechanism when the pressing iron is being placed on the stand or removed therefrom, thereby making it impossible for a careless operator to accidentally complete the circuit or for the circuit to be completed except when the pressing iron is in a certain predetermined position on the shoe.

In carrying out the invention, I provide a shoe having guards to prevent lateral movement of the pressing iron while on the stand and also to limit the extent of the vertical movement thereof, and whereby the pressing iron is guided to its proper position when being placed on the shoe and is guided in its removal from the shoe.

The invention is set forth hereinafter and the novel features are recited in the appended claims.

In the accompanying drawings:—Figure 1 is a view of a part of an automatic switch and pressing iron stand equipped with the

present invention; Fig. 2, a rear elevation of the shoe; and Fig. 3, a plan view thereof, partly broken away.

In the drawings, I have shown only so much of the structures set forth in my aforesaid Patents, Nos. 913,480 and 913,481 as will give a clear understanding of the purpose of the invention.

The stand proper is shown at 1, from which rise arched frames 5 and 6, to the former of which are pivoted the switch arms 8, which carry contact blocks 9 at their outer ends suitably insulated therefrom. Springs 12 around stationary pins 13 projecting upwardly from said arch 6 and passing through slots in the switch arms 8, normally hold the switch arms in raised position.

Slidable and rotatable in a suitable bearing in the upper part of frame 5 is a rod 29 carrying a combined arm and signal 36. The rod 29 is spring-actuated and when the arm 36 is in position to be engaged by the pressing iron 15, on placing the latter on the stand, the switch arms 8 are thrown downwardly so that their contacts 9 are adapted to engage contacts 17 on the pressing iron, said contacts 17 being in circuit with the heating element or medium of the pressing iron, and consequently, the pressing iron is heated by the electrical current.

The construction thus far described forms no part of the present invention, except in its general relation to the construction of the shoe now being claimed.

My improved shoe 3 rests upon the stand 1 and is suitably secured thereto, the shoe being of the general shape of the pressing iron, with its nose located adjacent the frame 6. The shoe has a flange 20 at both sides thereof and a slightly lower flange 21 along the rear edge thereof. Rising from the sides of the shoe are guards 22 which are, in the present instance, cast integral with the shoe, but they could be made as separate plates. These guards extend vertically a distance slightly greater than the height of the pressing iron and they are provided with inwardly extending retaining flanges 23 which are adapted to overhang the pressing iron.

In placing the pressing iron on the shoe, it is entered at the back thereof and slid forwardly, the flanges 23 then overhanging the pressing iron and preventing it from being lifted vertically, while the guards 22 prevent lateral movement of said pressing iron and consequently, it is impossible to acci-

dentally so place the pressing iron on the shoe that the said pressing iron will touch the contacts 9 of the switch arms and form a short circuit, nor can the pressing iron be removed from the shoe except by sliding it backwardly, and consequently, a short circuit cannot occur on removing the pressing iron from the shoe. The guards 22 guide the pressing iron when it is being placed on the shoe or removed therefrom.

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

1. The combination with an electrically heated pressing iron having contacts, of a shoe adapted to receive said pressing iron, electrical switch mechanism located adjacent the shoe and provided with movable contacts adapted to engage the contacts on the pressing iron when the latter is fully on the shoe, said switch mechanism being provided with means positioned for actuation by the pressing iron when the latter is placed on the shoe, to cause engagement of the contacts aforesaid, said shoe having means for substantially preventing vertical movement of the pressing iron when being placed on or removed from the shoe, thus preventing accidental engagement of the movable contacts with the pressing iron.

2. The combination with an electrically heated pressing iron having contacts, of a shoe adapted to receive said pressing iron, electrical switch mechanism located adjacent the shoe and provided with movable contacts adapted to engage the contacts on the pressing iron when the latter is fully on the shoe, said switch mechanism being provided with means positioned for actuation by the pressing iron when the latter is placed on the shoe, to cause engagement of the contacts aforesaid, said shoe having means for substantially preventing lateral movement of the pressing iron when being placed on or re-

moved from the shoe, thus preventing accidental engagement of the movable contacts with the pressing iron.

3. The combination with an electrically heated pressing iron having contacts, of a shoe adapted to receive said pressing iron, electrical switch mechanism located adjacent the shoe and provided with movable contacts adapted to engage the contacts on the pressing iron when the latter is fully on the shoe, said switch mechanism being provided with means positioned for actuation by the pressing iron when the latter is placed on the shoe, to cause engagement of the contacts aforesaid, said shoe having means for substantially preventing both vertical and lateral movements of the pressing iron when the latter is being placed on or removed from the shoe, thus preventing accidental engagement of the movable contacts with the pressing iron.

4. The combination with an electrically heated pressing iron having contacts, of a shoe adapted to receive said pressing iron, electrical switch mechanism located adjacent the shoe having movable contacts adapted to engage the contacts on the pressing iron when fully on the shoe and provided with means positioned for actuation by the pressing iron when the latter is placed on the shoe, to cause engagement of said contacts, said shoe having upright guards provided with inwardly projecting parts which overhang the pressing iron and substantially prevent both lateral and vertical movements of the pressing iron when on the shoe, thus preventing accidental engagement of the contacts with the pressing iron.

In testimony whereof, I hereunto affix my signature in presence of two witnesses.

FRANK E. EMERY.

Witnesses:

JOSEPH A. COSTELLO,
FRANK DEPEW.