E. W. RICE, Jr.

FLAT IRON STOVE.

APPLICATION FILED MAY 11, 1908.

905,459. Patented Dec. 1, 1908.

Fig. 1.

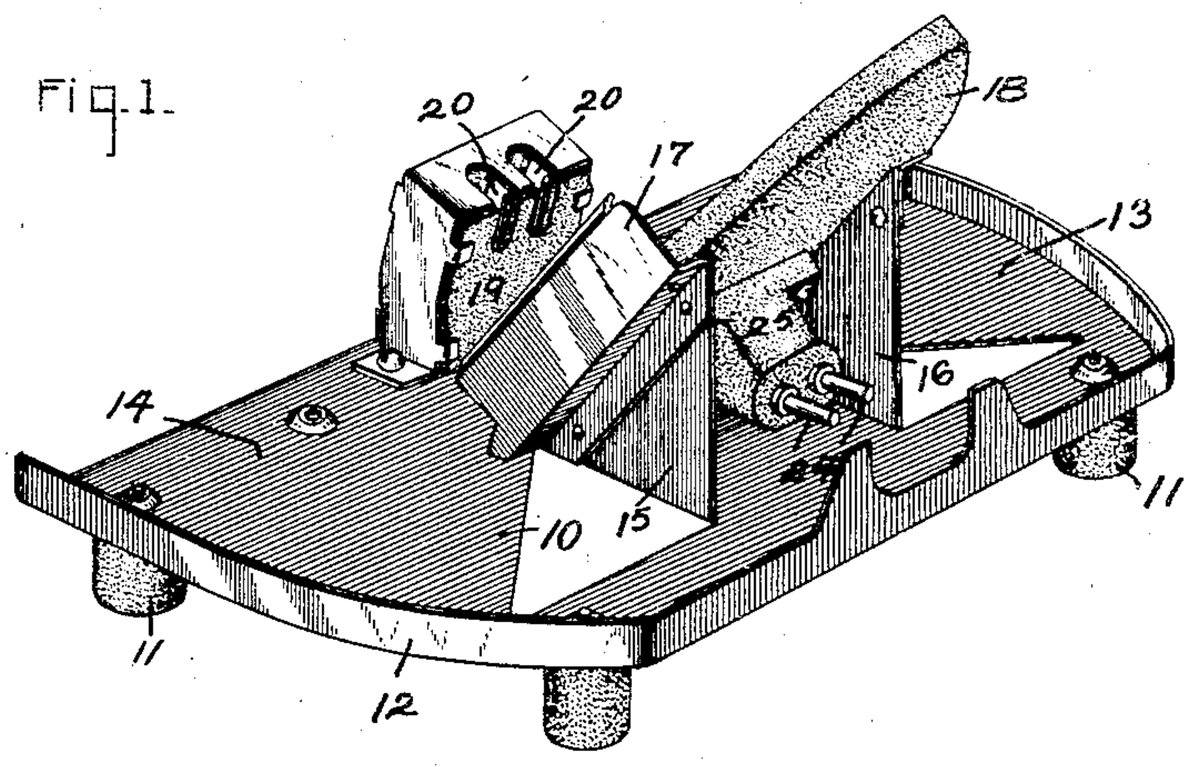
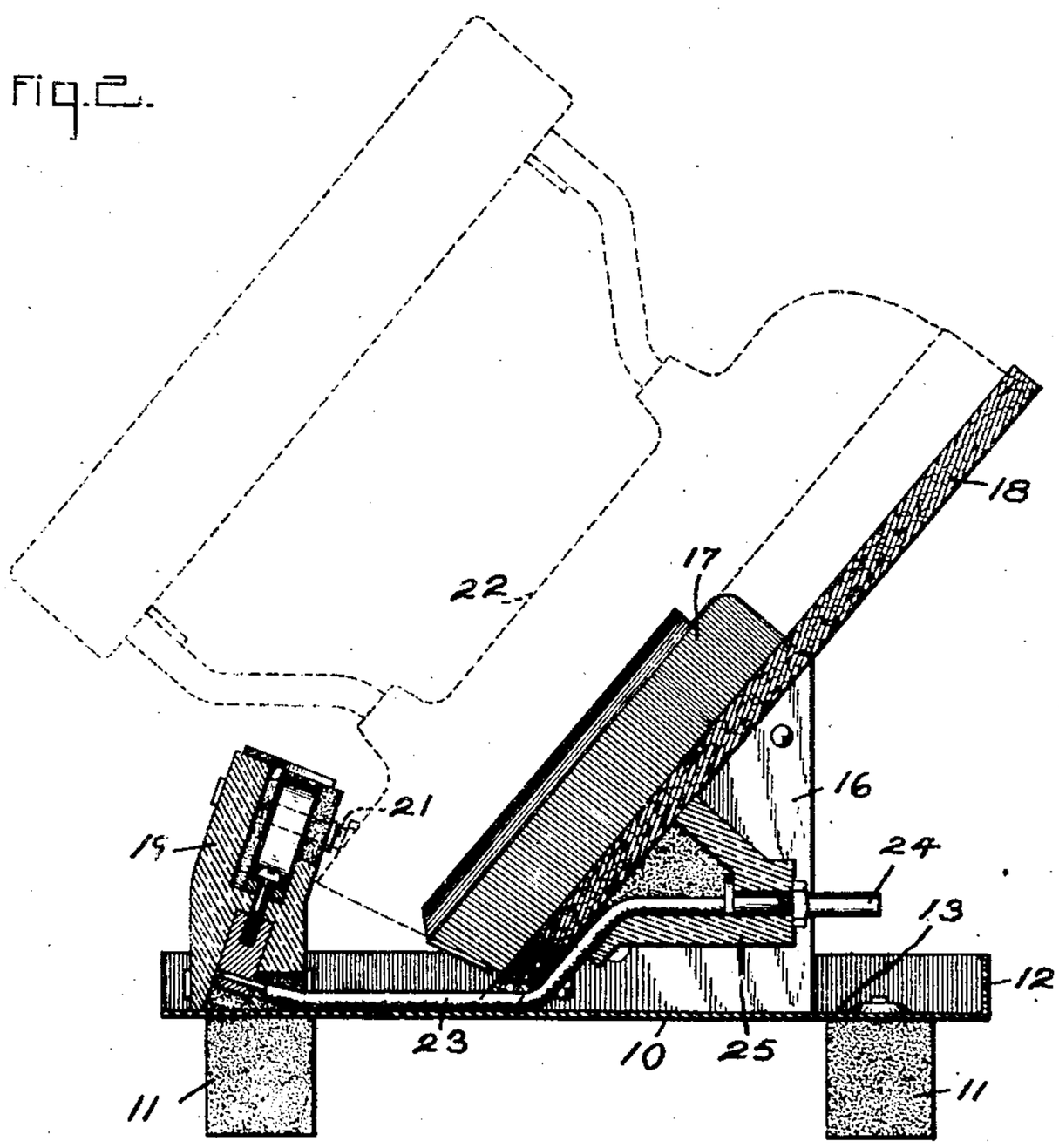


Fig. 2.



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UNITED STATES PATENT OFFICE.

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FLAT-IRON STOVE.

No. 905,459. Specification of Letters Patent. Patented Dec. 1, 1908.

Application filed May 11, 1908. Serial No. 432,021.

To all whom it may concern:

Be it known that I, EDWIN W. RICE, JR., a citizen of the United States, residing at Schenectady, county of Schenectady, State of New York, have invented certain new and useful Improvements in Flat-Iron Stoves, of which the following is a specification.

This invention relates to electric heating devices, and has for its object the provision of improved means for heating such devices as flatirons and the like and also supporting the same in a reliable, simple and efficient manner.

My invention relates more specifically to electrically heated flatirons. In the use of electrically heated flatirons at the present time it is the practice to connect the iron directly to the electric circuit so that the current will be on while the ironing is being performed. This arrangement has some disadvantages, one of which is that the iron may become overheated when left standing in contact with some inflammable material with disastrous results.

In carrying out my invention I provide a stand for the iron, which is in effect a stove. The arrangement is such that when the iron is placed upon the stand, the circuit is automatically closed and the iron heated, and when the iron is removed the circuit is broken. This has the advantage that no wires are connected to the iron while in operation as well as the fact that the iron will be less liable to overheat and cause fire. I arrange the stand in such a manner that it will accommodate two irons which are not in circuit, while the support on which the iron is heated is arranged between these two irons. The central or heating support is inclined towards a pair of terminals so that when the iron is placed upon the inclined surface, it will slide downward towards the terminals and make contact.

In the accompanying drawing in which I have shown my invention embodied in concrete form, Figure 1 is a perspective view of the heating stand or stove; and Fig. 2 is a central section of the same showing the flatiron in outline.

Referring to the drawing, 10 represents a metallic base having insulating plugs 11 somewhat trapezoidal in shape with curved sides. This base has a rim 12 projecting upwardly around three of its sides to prevent the iron from sliding off. This base is arranged so as to form a stand for three irons, one to be placed upon each of the portions 13 and 14, and one between these two portions.

The central support is formed by bending or striking up the two angular pieces 15 and 16 from the base. These pieces 15 and 16 have riveted to them the guide pieces 17, and upon these guide pieces is supported an insulating plate 18. This plate is preferably of some material such as soapstone or porcelain and is in the shape of a flatiron face. The particular material of which this plate is composed forms no part of my invention, the principal consideration being that it shall stand a relatively high temperature and be strong and durable and a poor heat conductor. This supporting plate 18 is inclined at an angle of about 45° with the base. Arranged at the rear edge of the base and centrally thereof is a contact member comprising a block of insulating material 19 having embedded therein a pair of connecting terminals or clips 20. These clips are preferably arranged at an angle with the base and may be substantially parallel with the plate 18. The clips are arranged at such a distance from the base that they will be engaged by the contacting studs 21 of the flatiron 22 when the latter is placed upon the plate 18 as shown. The flatiron may be of any desired construction, but for purposes of illustration I have shown the flatiron which is disclosed in the patent to F. M. Vogel, Patent No. 839,343. This flatiron is designed to be used with cord terminals and by arranging the stand or stove in the manner described, this standard flatiron may be used. Electrical connections are made with the clips 20 by means of the conductors 23 which terminate in the pins 24 securely mounted on the insulating block 25 under the plate 18. The circuit connections are made with the pins 24, and when the flatiron is placed upon the plate 18 it will slide by gravity until it reaches the clips 20, thereby closing the circuit through the iron. With the parts of the unit arranged as shown, two irons can be employed so that one may be heated while the other is in use. When neither of the irons are in use they may occupy the spaces 13 and 14 of the base.

While I have described my invention in connection with a specific arrangement and combination of parts, it should be understood that I do not limit my invention

thereto, except in so far as it is limited by the scope of the claims annexed hereto.

What I claim as new and desire to secure by Letters Patent of the United States, is,—

1. A flatiron stand comprising a contact member, and a support for the iron arranged to give the latter a bias towards said member.

2. A flatiron stand comprising a contact member, and a support for the iron inclined downwardly in the direction of said member.

3. A flatiron stand comprising an upwardly projecting contact member, and an upwardly projecting support for the iron adjacent thereto.

4. A flatiron stand comprising an upwardly projecting support for the iron, and contact terminals adjacent thereto and substantially parallel with the support.

5. A flatiron stand comprising an inclined central support, a contact member adjacent thereto, and a horizontal support on each side of the same.

6. A flatiron stand comprising a central support, a contact member adjacent thereto, and a support on each side of said central support and contact member.

7. A flatiron stand comprising an inclined support, contact terminals adjacent thereto, and a horizontal support adjacent said terminals and inclined support.

8. A flatiron stand comprising a contact member, a support for the iron inclined downwardly in the direction of said member, and a horizontal support on each side of said inclined support.

9. A flatiron stand comprising a metallic base arranged to support an iron on each side thereof, wing portions bent upward from said base to form a central inclined support, and a contact member adjacent said support.

In witness whereof, I have hereunto set my hand this 8th day of May, 1908.

EDWIN W. RICE, JR.

Witnesses:
HELEN ORFORD,
BENJAMIN B. HULL.