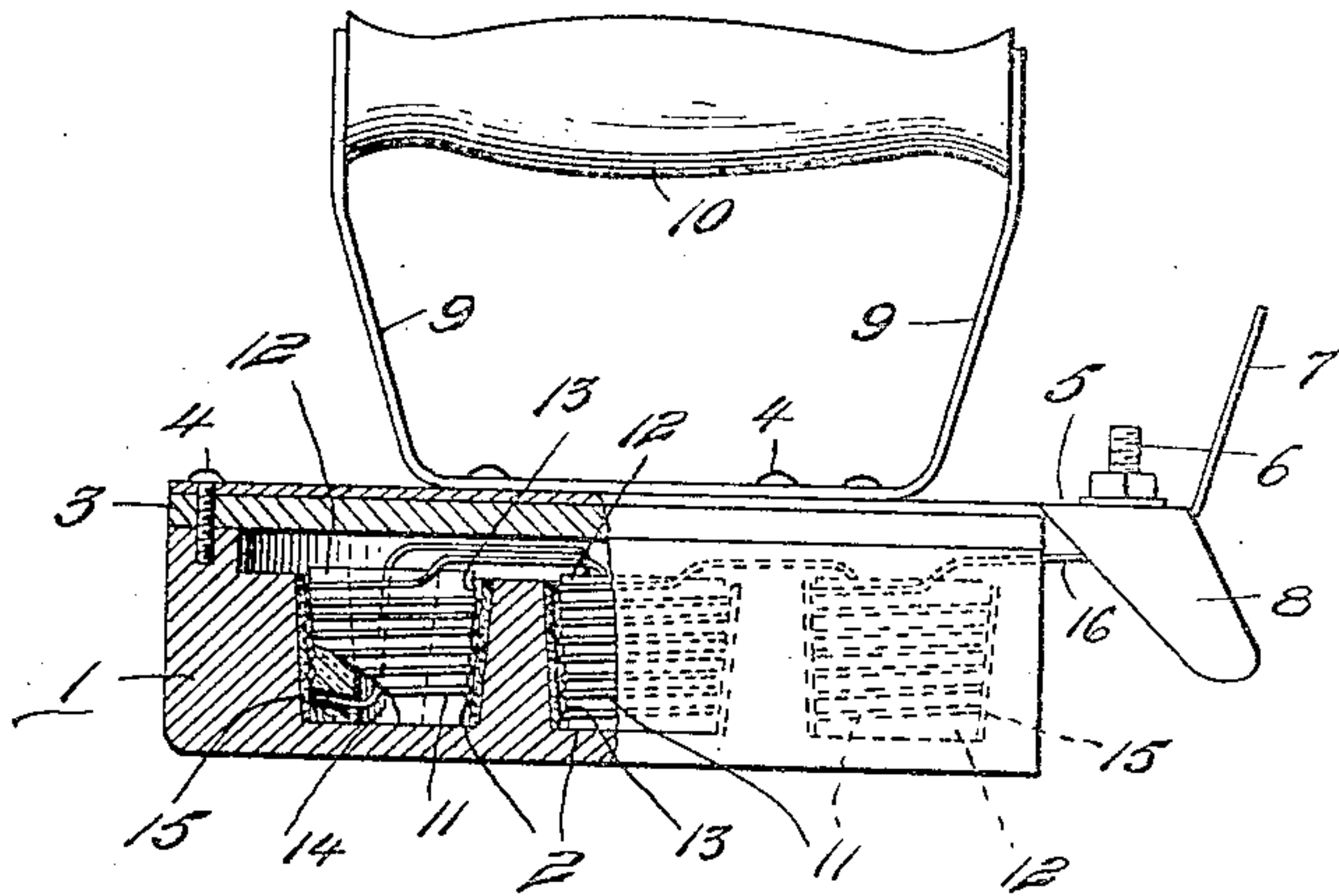


A. O. WHITMORE.  
ELECTRIC SMOOTHING IRON.  
APPLICATION FILED AUG. 7, 1908.

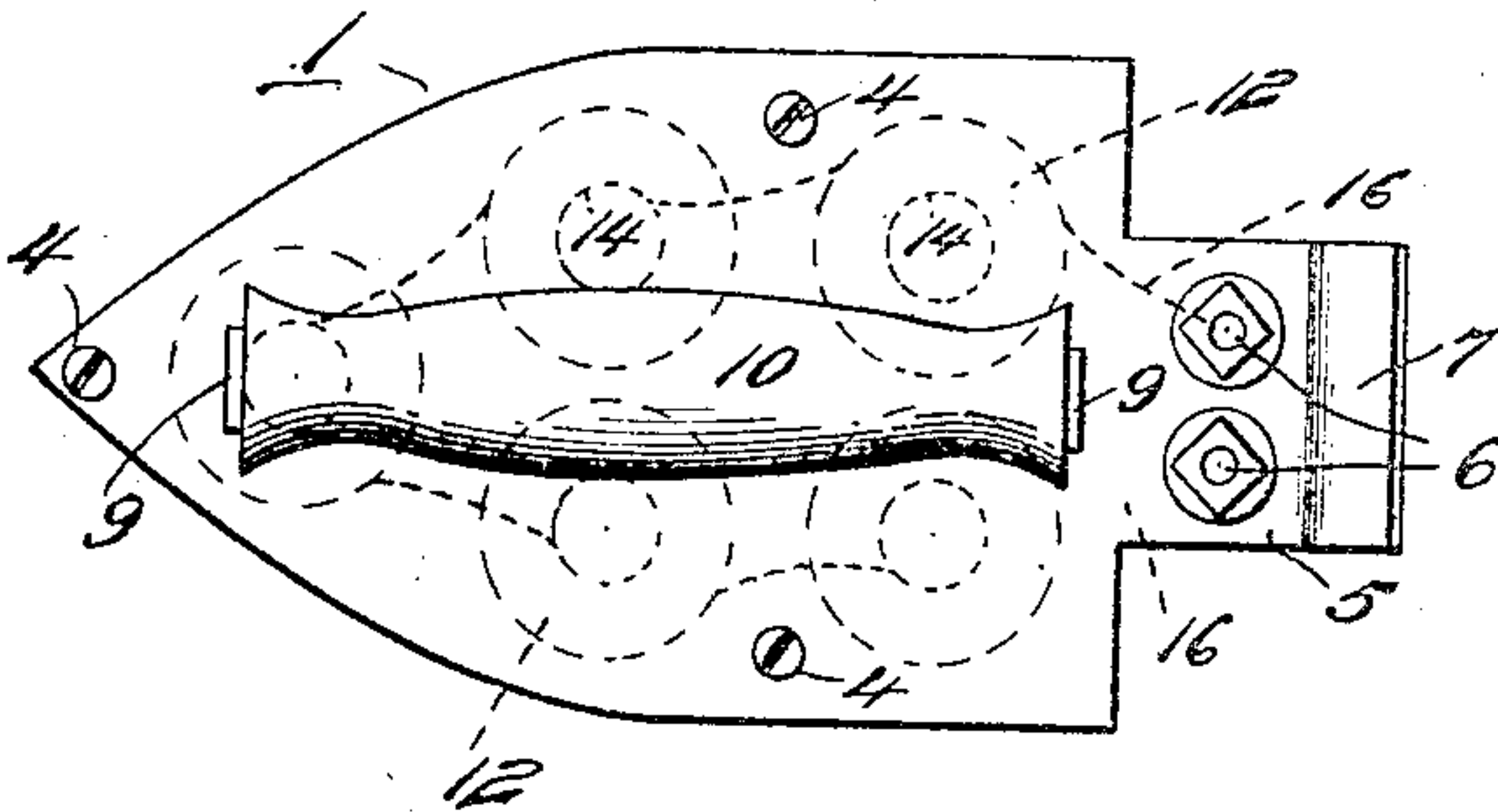
930,638.

Patented Aug. 10, 1909.

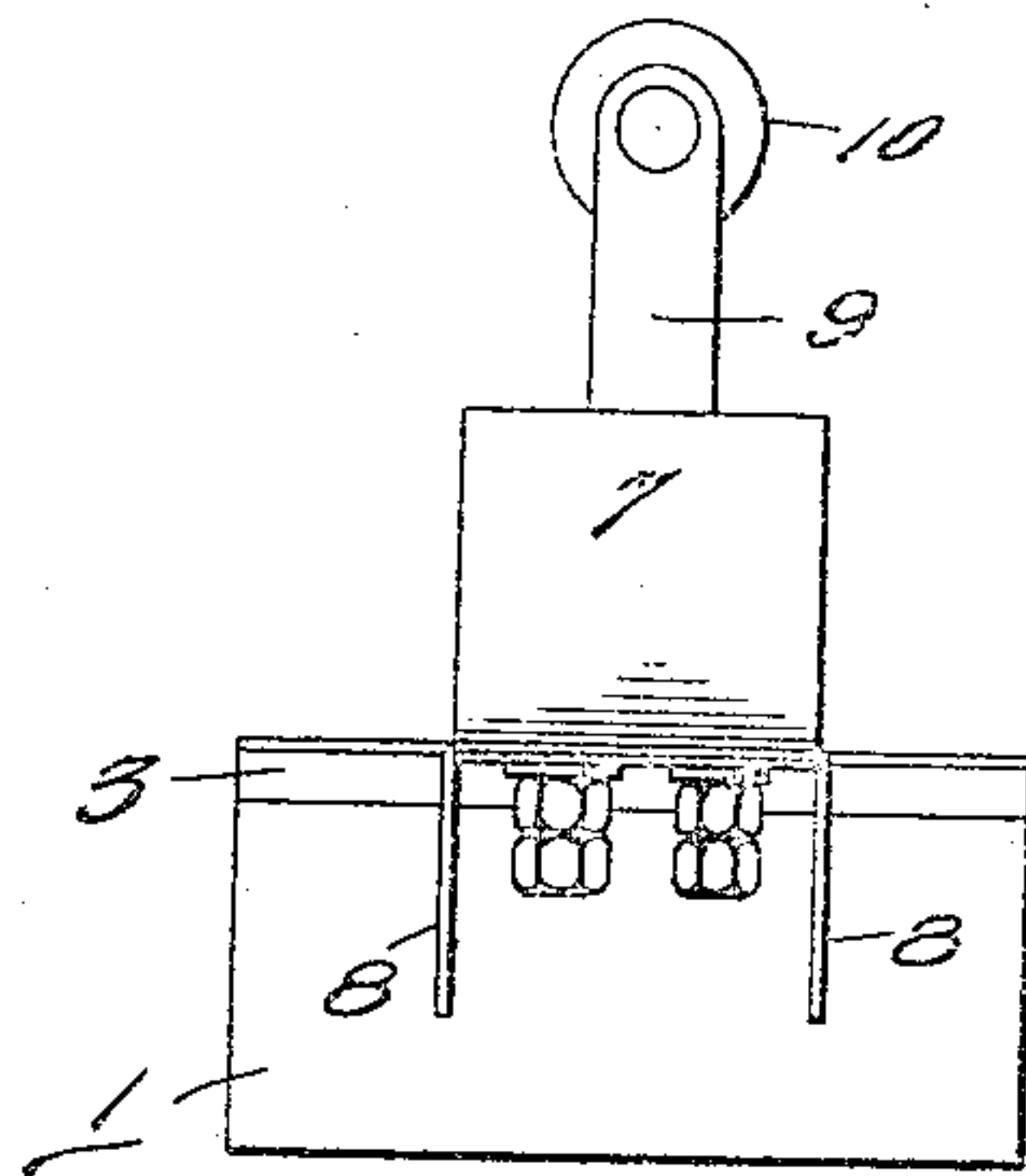
*Fig. 1.*



*Fig. 2.*



*Fig. 3.*



Witnesses

*E. M. Offutt,*  
*A. E. Moore.*

*Alfred O. Whitmore,*  
Inventor.

by *John F. Moore,*  
Atty.



# UNITED STATES PATENT OFFICE.

ALFRED O. WHITMORE, OF SALT LAKE CITY, UTAH.

## ELECTRIC SMOOTHING-IRON.

No. 930,638.

Specification of Letters Patent.

Patented Aug. 10, 1909.

Application filed August 7, 1908. Serial No. 447,413.

*To all whom it may concern:*

Be it known that I, ALFRED O. WHITMORE, a citizen of the United States, residing at Salt Lake City, in the county of Salt Lake and State of Utah, have invented certain new and useful Improvements in Electric Smoothing-Irons, of which the following is a specification.

My invention relates to improvements in electric smoothing irons, and has for one of its objects, the provision of a device of this character in which the heat will be radiated direct throughout the entire body of the iron without loss, which will operate with a minimum current consumption and which will be practical and efficient in all respects.

Another object is to provide suitable protection for the leading-in wires as well as a rest to support the iron when not in use.

A further object is to provide supporting cores for the heating or resistance units which will permit of the ready insertion and removal of such units, and also to mount the units in such manner that they will radiate their heat outwardly into the surrounding iron body.

With the foregoing and other objects in view, the invention consists essentially of an iron body and a cover thereto mounting a handle, and heating units mounted in the body of the iron so as to radiate their heat outwardly into the surrounding material of the iron.

The invention also resides in certain other novel features of construction, combination and arrangement of parts substantially as disclosed herein and as illustrated in the accompanying drawings, in which:

Figure 1 is a side elevation of my improved smoothing or sad iron with part of the iron shown in section to illustrate the mounting of the heating units. Fig. 2, is a plan view of the same showing in dotted lines, the arrangement of the heating units. Fig. 3, is an end view of the iron to illustrate the leading-in connections.

The body 1, of the iron is of conventional shape and may be made in any desired size. Within the body are formed a number of seats or recesses 2, which preferably taper downwardly and to close said seats or recesses, a cover plate 3, is provided which may be secured to the body of the iron by

screws or suitable fastenings 4. This cover is preferably made in two parts, a heavy lower fireproof heat-insulating part and an upper sheet metal part, and this sheet metal part is extended straight rearwardly to form a base 5, on which the terminal posts 6, are mounted, thence directed angularly upward to form a guard 7, for the terminals. A pair of side wings 8, are struck downwardly and rearwardly from the base extension which serve as a rest for the iron when not in use. A somewhat U-shaped member provided with upstanding arms 9, is fastened upon the cover, and to said arms is secured a handle 10.

The heating units consist of a series of coils of suitable resistance wire 11, which is wound upon the spools or cores 12 these cores being made of porcelain, clay, or other suitable insulating material. These cores are tapering in forms so as to fit within the tapering recesses in the body of the iron and are formed with the external spiral groove-ways 13, to receive the turns of resistance wire and to keep the convolutions separate from each other. The cores also have an upwardly converging opening 14, there- through to render them as light as possible and so as to allow for a certain amount of expansion. A lining 15, of asbestos or other fireproof insulating material is placed in each of the recesses or seats in the iron body so as to prevent the coils from short-circuiting against the walls of the recess.

In use, the terminals are connected with a suitable source of electrical supply, preferably by means of an extension cord and plug, and the leading-in wires 16, conduct the current to the heating coils. The coils may be connected together in series or in any other way. As the coils become heated, the cores expand, bringing the coils in more intimate contact with the medium to be heated, and the heat is radiated directly outward into the medium. The heat thus spreads radially outward into the surrounding medium so that the iron is heated uniformly and all the heat energy is utilized. When not in actual use, the iron would be tilted back upon the supporting wings, which serve in the nature of a stand and also serve in combination with the upstanding guard, to guard and protect the terminals.



From the foregoing description taken in connection with the drawings it will be evident that my improved sad iron is practical and useful and that it fully and satisfactorily accomplishes all the objects aimed at.

I claim:

1. A smoothing iron having recesses therein, lining to said recesses, a top to the iron, a handle on said top, the top having a rearward base extension, terminals mounted on said base extension, an angularly upstanding guard rising from said base extension, and supporting wings depending from the base extension.
2. A smoothing iron having recesses therein, heating units in said recesses, a top secured to the iron and consisting of a lower strip and an upper strip, said upper strip being formed with an extension, terminals

mounted on said extension and a guard on said extension.

3. A smoothing iron having recesses therein, linings in said recesses, heating units in said linings, a top made of two strips or parts, an extension formed on the upper part, terminals mounted on said extension, and a guard and supporting wings formed on said extension.

4. An electric smoothing iron, having a cover or top plate, provided with an extension, said extension being provided with an upstanding guard and depending wings.

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

ALFRED O. WHITMORE.

Witnesses:

M. O. MINOR,  
J. W. RISQUE.