

J. M. HARPER.  
SAD IRON HEATER.  
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935,106.

Patented Sept. 28, 1909.

Fig. 1.

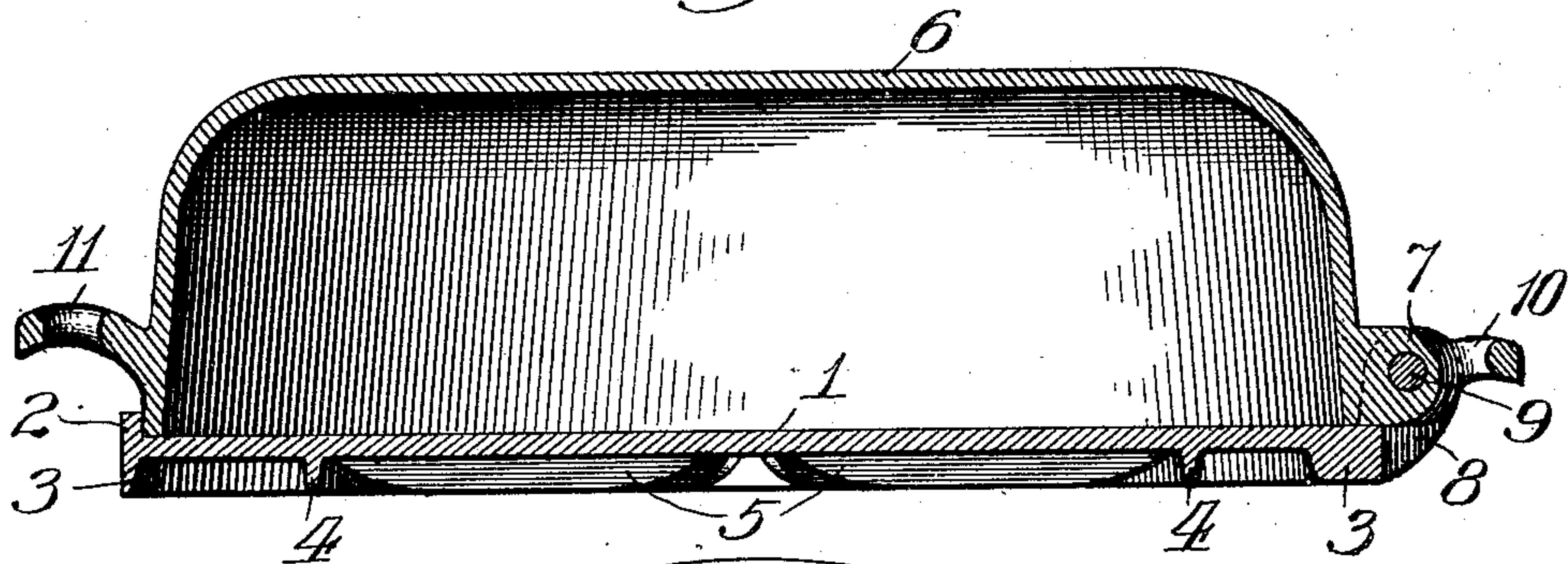
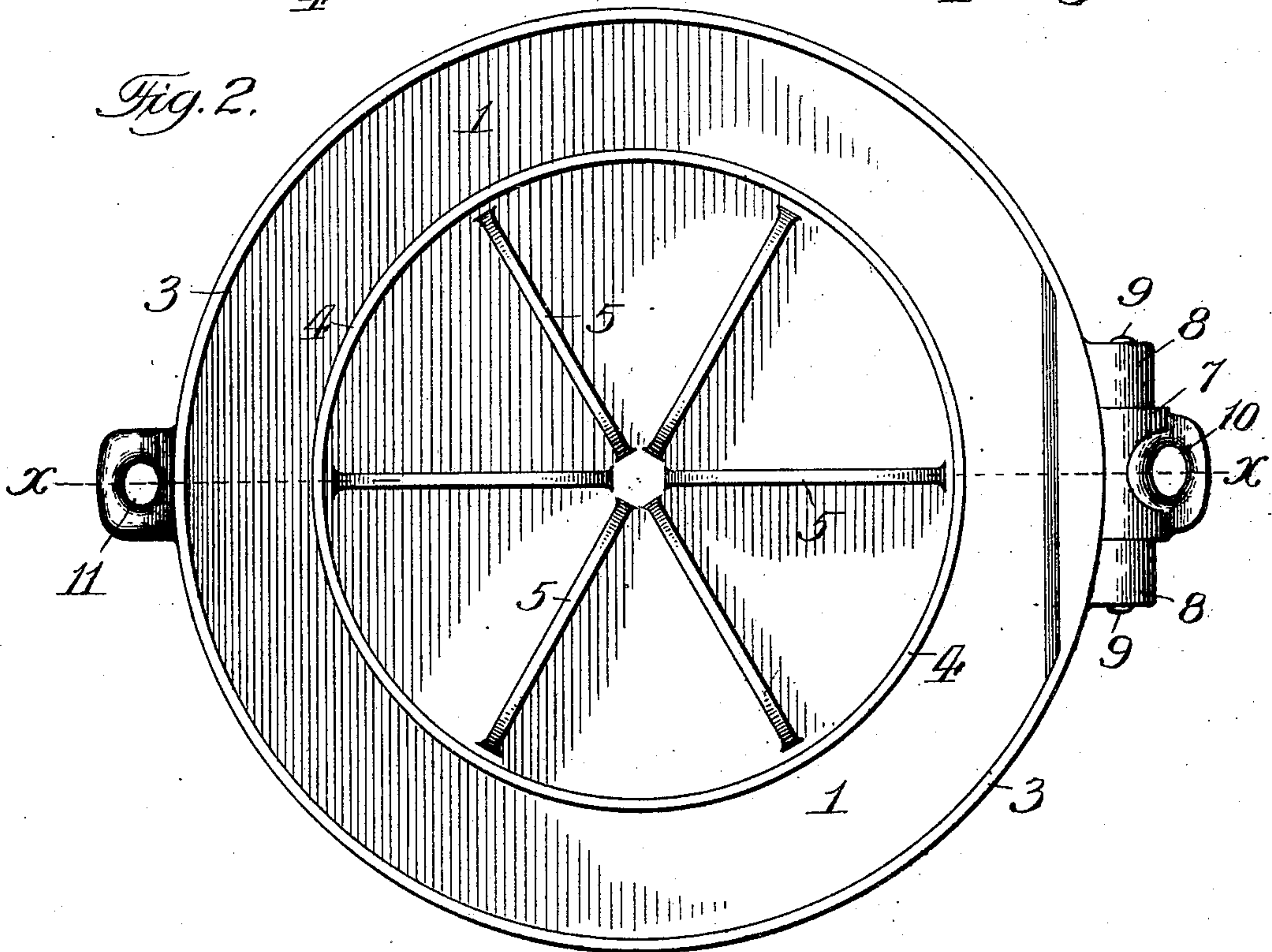


Fig. 2.



Attest:  
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# UNITED STATES PATENT OFFICE.

JAMES M. HARPER, OF CHICAGO, ILLINOIS, ASSIGNOR TO THE HARPER SUPPLY COMPANY, OF CHICAGO, ILLINOIS, A CORPORATION OF ILLINOIS.

SAD-IRON HEATER.

935,106.

Specification of Letters Patent. Patented Sept. 28, 1909.

Application filed November 14, 1908. Serial No. 462,555.

*To all whom it may concern:*

Be it known that I, JAMES M. HARPER, a citizen of the United States of America, and a resident of Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Sad-Iron Heaters, of which the following is a specification.

This invention relates to heaters for sad-irons, and has for its object to provide a simple and efficient construction and combination of parts, whereby direct contact of the flame with the sad-iron is prevented; a rapid heating of the sad-irons attained, and with which the flame is effectively held beneath the base plate of the heater, all as will hereinafter more fully appear.

In the accompanying drawings:—Figure 1, is a central sectional elevation on line  $x-x$ , Fig. 2. Fig. 2, is a bottom plan showing the formation of the under surface of the base plate of the heater.

Similar numerals of reference indicate like parts in both views.

Referring to the drawings, 1 represents the flat base plate of the heater, preferably of the circular shape shown, and having an upturned marginal flange 2, and a corresponding downturned marginal flange 3, as shown.

4 is a secondary circular flange or bead formed on the bottom of the base plate inside the downturned flange 3 aforesaid, and of a less diameter than the flange 3.

5 are a series of radial ribs on the bottom of the base plate 1 and located within the space inclosed by the circular bead 4, aforesaid; such radial ribs have curved ends which merge into the metal of the base plate 1, so as to leave gaps adjacent to the bead 4, and like gaps at the center of the base plate 1 as shown in Fig. 2.

6 is the casing or cover of the heater of a dome shape with its lower margin adapted

to fit inside the upturned marginal flange 2, as shown.

7 is a pivot ear on the casing 6 and fitting between a pair of pivot ears 8 on the base plate 1 and connected thereto by a pivot pin 9 to afford a pivotal connection between the heater parts.

10 is an orificed extension of the pivot ear 7 aforesaid to afford convenient means for handling the heater.

11 is an orificed lug formed on the casing 6 diametrically opposite to the pivot ear 7 and adapted to afford convenient means for tilting back the casing 6 or returning the same to place.

The present heater is adapted for use over the burner of a gas range or the like, and the construction of the under face of the base plate 1 above described is adapted to retain the flame at the under side of the heater in a very effective manner, and with a consequent saving of gas and a very effective heating of the base plate of the heater.

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

In a sad-iron heater of the type described, the combination of a flat base plate formed with an upturned marginal flange, a downturned marginal flange, a secondary flange inside of said downturned marginal flange and a series of radial ribs inside said secondary flange, and a dome shaped cover pivotally connected to said base plate and fitting within the upturned marginal flange aforesaid of the base, substantially as set forth.

Signed at Chicago, Illinois, this 10th day of November 1908.

JAMES M. HARPER.

Witnesses:

ROBERT BURNS,  
HENRY MOE.