

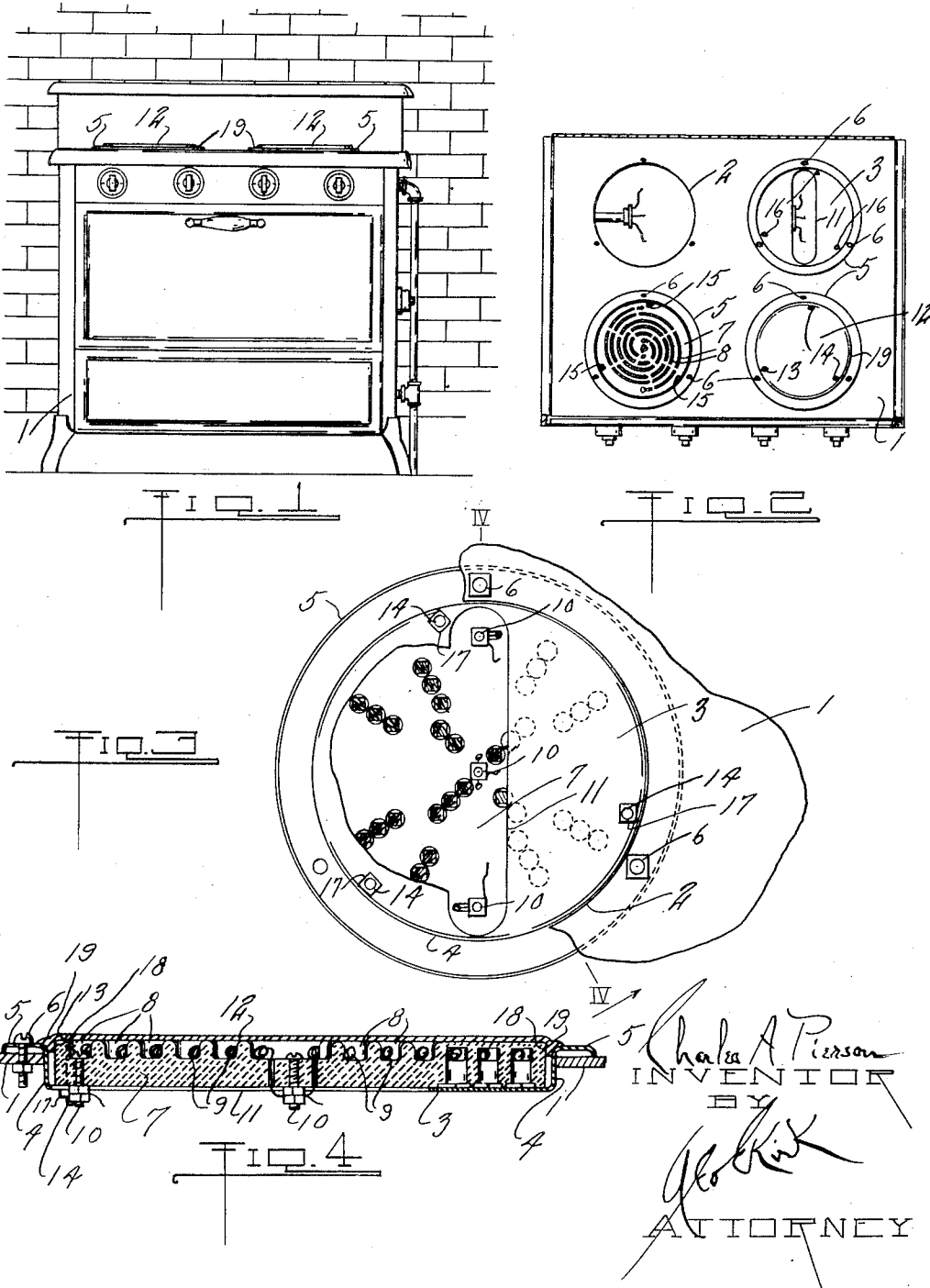
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ELECTRIC STOVE

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UNITED STATES PATENT OFFICE.

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ELECTRIC STOVE.

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This invention relates to electric heaters.

This invention has utility when incorporated in domestic type of heating stoves.

Referring to the drawings:

Fig. 1 is a view of the invention as incorporated in a cooking stove of the electric type;

Fig. 2 is a top plan view of the heater assembly, with parts broken away;

Fig. 3 is a bottom plan view, with parts broken away, of the heater; and

Fig. 4 is a section on the line IV—IV, Fig. 3.

Electric stove frame 1 is provided with openings 2 therein in which may be mounted pockets comprising bottom or sustaining portions 3, annular side wall 4, and overhang sustaining flange 5. Bolts 6, in the flange 5, may mount this pocket for positive assembly in the opening 2 with the frame 1 of the stove. Refractory 7 as a rigid or brick type of construction, may have ways 8 therein for heating elements herein shown as wire helix type 9 between terminals 10. The pocket in its sustaining portion 3 is provided with opening 11 through which the terminals 10 may extend for convenient connection of the supply and control lines. Cover plate 12 is shown as having series of openings 13 through which may extend bolts 14 as passing through openings 15 in the brick or refractory 7 and through openings 16 in the supporting portion 3 of the pocket. Nuts 17 on these bolts 14, accordingly, serve to unite the cover, refractory and seat or pocket, as a unit, with the pocket and cover spaced from the heating element by the refractory 7. This cover 12 is shown as having depending flange 18 as a centering means or spacer for the refractory 7 as to the pocket wall 4. Overhang 19, as a rim from this cover 12, provides neat fitting between the flange 5 of the seat or pocket and its cover 12.

Accordingly, this brick provides a substantial resistance holder which may be directly exposed in the pocket by having the bolts 14 directly through independently of the cover plate for assembly with the pocket or in those instances where articles may slip over or wherein it is desired to cook directly on the heated element, as griddle cakes, the cover 12 may shield the refractory and the

heating element. This is a simple efficient device for the utilization of the electric heating in a structure which is readily accessible and conveniently examined for repair and upkeep changes.

What is claimed and it is desired to secure by United States Letters Patent is:

1. A refractory provided with ways there-through and intermediate upstanding portions, electrical resistance in said ways, terminals for said resistance anchored in said refractory, a peripherally flanged pocket insulated from the resistance by said refractory for sustaining said resistance carrying refractory, and a continuous closed cover for the resistance spaced from the resistance by said refractory intermediate upstanding portions for taking the cover load, said cover having a flange entering the pocket between the refractory and pocket for centering the refractory in the pocket.

2. A refractory provided with ways there-through and intermediate upstanding portions, electrical resistance in said ways, terminals for said resistance anchored in said refractory, a peripherally flanged seat insulated from the resistance by said refractory for sustaining said resistance carrying refractory, and a continuous closed cover for the resistance spaced from the resistance by said refractory intermediate upstanding portions for taking the cover load, said cover being provided with an outer rim fitting upon said seat flange.

3. A refractory provided with ways there-through and intermediate upstanding portions, electrical resistance in said ways, terminals for said resistance anchored in said refractory, a peripherally flanged seat insulated from the resistance by said refractory for sustaining said resistance carrying refractory, a continuous closed cover for the resistance spaced from the resistance by said refractory intermediate upstanding portions for taking the cover load, said cover being provided with an outer rim fitting upon said seat flange, and bolts assembling the cover, refractory and seat as a unit.

In witness whereof I affix my signature.

CHAS. A. PIERSON.