C. E. HELLER.

ELECTRICAL HEATING APPLIANCE.

APPLICATION FILED OCT. 26, 1917.

1,266,941. Patented May 21, 1918.

Fig. 1.

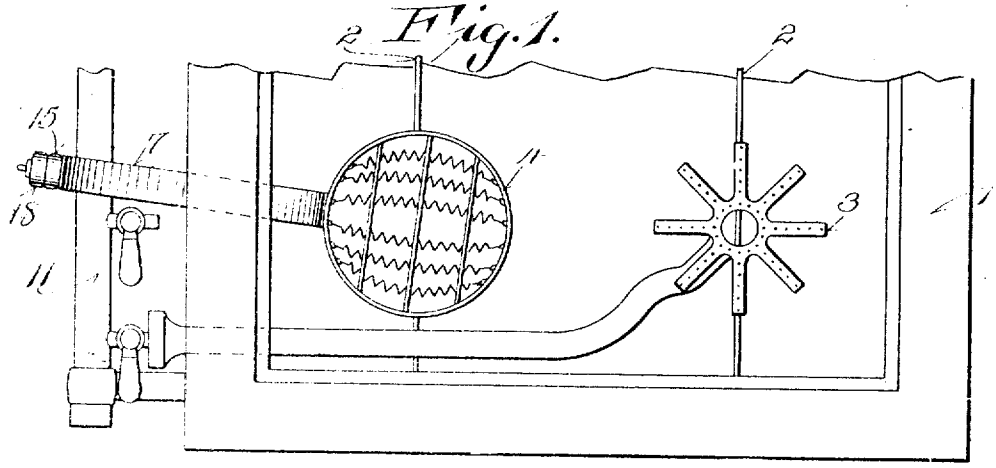


Fig. 2.

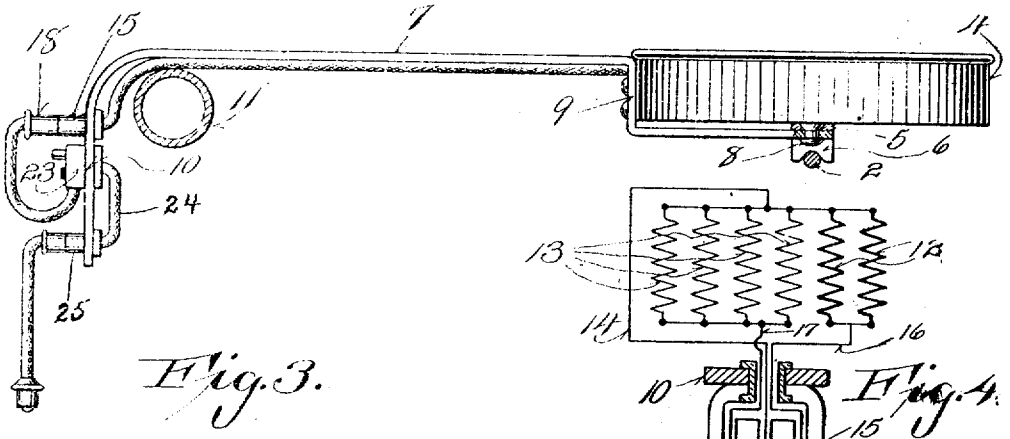
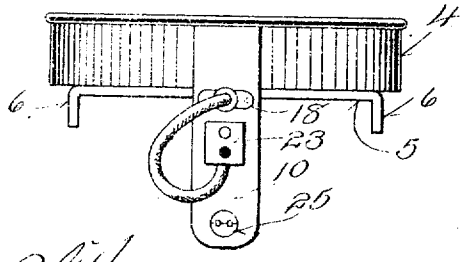


Fig. 3.

Fig. 4.



Witness

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UNITED STATES PATENT OFFICE.

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ELECTRICAL HEATING APPLIANCE.

1,266,941. Specification of Letters Patent. Patented May 21, 1918.

Application filed October 26, 1917. Serial No. 198,621.

To all whom it may concern:

Be it known that I, CEDRIC E. HELLER, a citizen of the United States, and resident of Milwaukee, in the county of Milwaukee and State of Wisconsin, have invented certain new and useful Improvements in Electrical Heating Appliances; and I do hereby declare that the following is a full, clear, and exact description thereof.

My invention relates to certain new and useful improvements in electrical heating units and has for its primary object to provide means whereby any gas range may be readily converted into an electrical range.

A more specific object of the present invention is to provide an electrical heating unit disposed in a pan shaped container which has means on its bottom for detachably engaging the supporting rod which extends transversely across the burner receiving frame of a gas range.

With the above and other objects in view which will appear as the description proceeds, my invention resides in the novel construction, combination and arrangement of parts substantially as hereinafter described and more particularly defined by the appended claims, it being understood that such changes in the precise embodiment of the herein disclosed invention may be made as come within the scope of the claims.

In the accompanying drawing, I have illustrated one complete example of the physical embodiment of my invention constructed according to the best mode I have so far devised for the practical application of the principles thereof, and in which:

Figure 1 is a top plan view of my invention secured to a gas range, the gas range being shown in conventional lines.

Fig. 2 is a side plan view of my invention separate from the range.

Fig. 3 is a front elevation view of my invention, and

Fig. 4 is a diagrammatic view of the heating elements and means for varying the degree of heat generated by the elements.

Referring now more particularly to the accompanying drawing, 1 designates a gas range of usual construction having transverse burner supporting rods 2 upon which the usual gas burners 3 rest, and my invention is designed to take the place of the burner 3 and consists of a pan shaped container 4 which has secured transversely to its bottom a transverse member 5 which has its ends directed downwardly and bifurcated as at 6 for engagement with rod 2.

For retaining container 4 in its proper position on rod 2 a brace member 7 has its inner end secured centrally to member 5 as at 8 and has its portion 9 directed along the side of container 4 and secured thereto, and has its outer end 10 directed downwardly to pass over and rest upon the gas supply pipe 11 of the range. By this construction, the container 4 is held from displacement, and disposed in the container are two series of heating coils 12 and 13, which have a common wire 14 leading to a central contact plug 14′ of a three way male plug 15 and leading from coils 12 is a wire 16 which connects with the contact 16′ of plug 15, and leading from coils 13 is a wire 17 leading to a contact 17′ of plug 15.

A female plug 18 is provided with a pair of contacts 19 connected with a common wire 20 and a central contact 21 connected with a wire 22, which wires 21 and 22 lead through a suitable control switch 23 connected with a source of electrical energy by means of connection 24, and provided in connection 24 is a suitable breakable plug 25 which is carried by the extreme end of portion 10. As best shown in Fig. 4, when it is desired to have a low heat in container 4, plug 18 is placed in position relative to plug 15 so that contact 21 will engage contact 16′ and one contact 19 will engage contact 14′. When it is desired to have a medium heat, plug 18 is in the position depicted in Fig. 4, contacts 14′ and 17′ engaging contacts 19 and 21 respectively, and when it is desired to have a maximum supply of heat, contact 21 engages contact 14′ and contacts 19 engage contacts 16′ and 17′.

From the foregoing description taken in connection with the accompanying drawing it will be readily apparent that by my invention an ordinary gas range can be readily converted into an electrical range and that the same is simple and compact in its general arrangement.

I claim:—

1. An electrical heating element comprising, in combination, a pan-shaped container, a transverse member secured to th bottom of the container, and having its ends downturned and bifurcated to engage a supporting rod, a support secured centrally to said transverse member and to the side of the container, said support extending laterally

from the container and then being down-turned to engage a supporting pipe, heating coils disposed in said container, electrical connections carried by the down-turned portion of said supporting member and connected with said heating coils, and means in said electrical connections for varying the heat generated by the coils in the container, substantially as described.

2. An electrical heating element comprising a pan-shaped container, heating coils disposed in said container, a transverse member secured to the bottom side thereof and directed laterally and downwardly to engage a supporting bar, a brace member secured to the transverse member and to the side of the container, said brace member being provided at its outer end with a control switch, a source of electrical supply connected with said switch, and an electrical connection betwen the heating coils and said switch.

In testimony that I, claim the foregoing I, have hereunto set my hand at Milwaukee, in the county of Milwaukee, and State of Wisconsin.

CEDRIC E. HELLER.