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GAS BURNER SUPPORTING STAND

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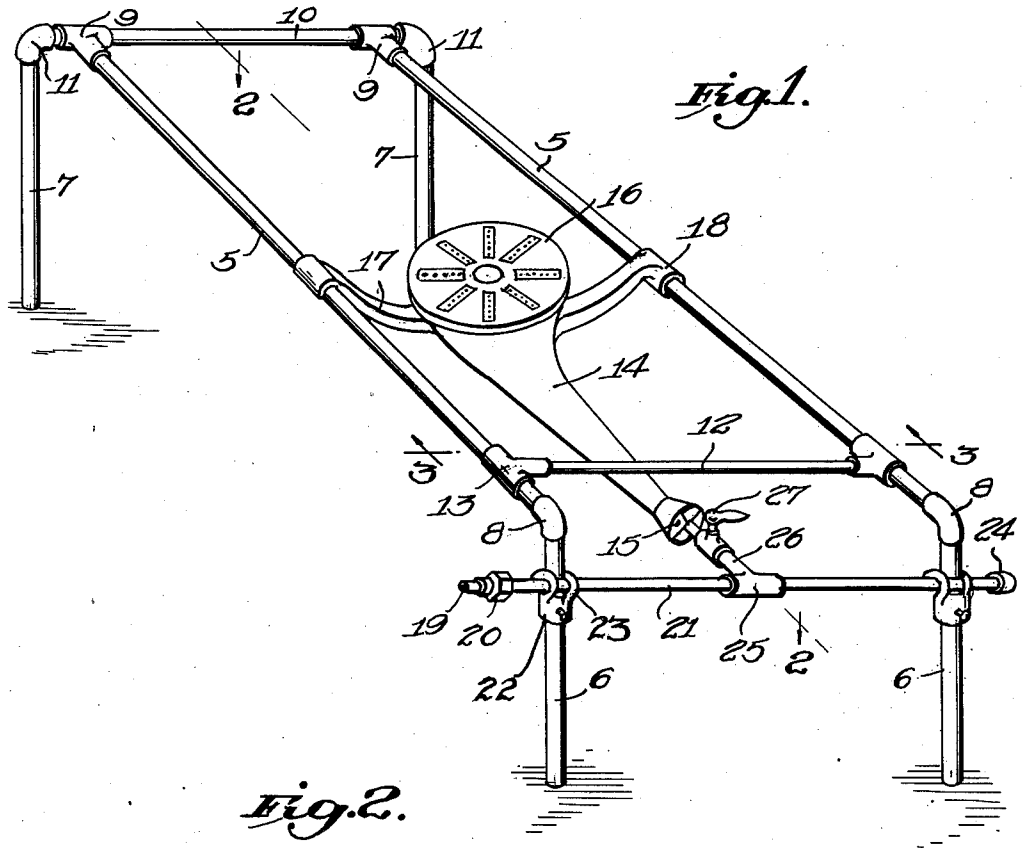


Fig. 1.

Fig. 2.

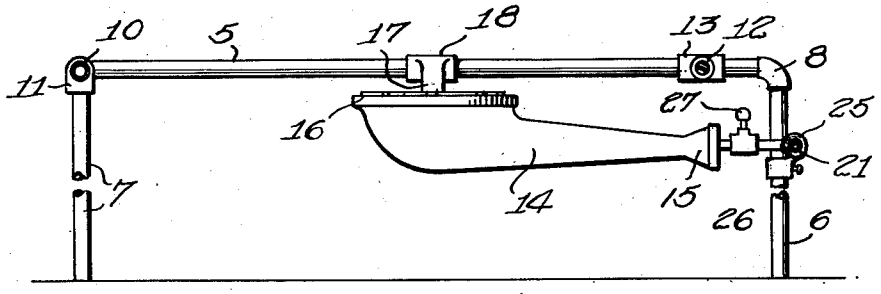
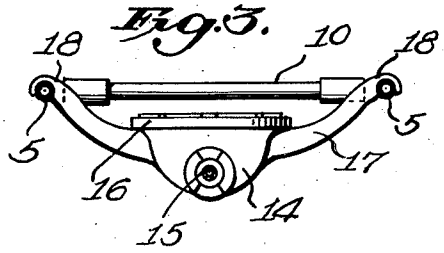


Fig. 3.



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GAS BURNER SUPPORTING STAND

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2 Claims. (Cl. 126—40)

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This invention relates to certain new and useful improvements in gas burner supporting stands.

The primary object of the invention is to provide a gas burner supporting stand with a burner mounted thereon and of such structure as to adapt the same for laundry and similar purposes.

A further object of the invention is to provide a heating structure of the foregoing character wherein a stand of skeleton rod construction has gas service pipes supported thereon and a burner removably mounted in position and easily removable therefrom for repair purposes or the like.

It is a further object of the invention to provide a gas burner supporting stand of such character that a plurality of said stands may be assembled to form a battery of heaters.

With the above and other objects in view that will become apparent as the nature of the invention is better understood, the same consists in the novel form, combination and arrangements of parts hereinafter more fully described, shown in the accompanying drawing and claimed.

In the drawing:

Figure 1 is a perspective view of a gas burner supporting stand constructed in accordance with the present invention and illustrating a burner removably supported thereon;

Figure 2 is a vertical longitudinal sectional view partly broken away and taken on line 2—2 of Figure 1, showing the head of the burner disposed in a plane between the upper side bars of the supporting frame; and

Figure 3 is a cross sectional view taken on line 3—3 of Figure 1.

Referring more in detail to the accompanying drawing, there is illustrated a stove structure especially adapted for laundry or restaurant use, and the supporting stand for the gas burner is of skeleton rod formation comprising a pair of side rods 5 supported in an elevated position at their front and rear ends by front legs 6 and rear legs 7. Elbow connections 8 unite the rods 5 and front legs 6 while the rear ends of the side rods 5 have T-connections 9 with the rear cross rod 10 of the supporting stand, the outer ends of the cross rod 10 having elbow connections 11 with the rear legs 7. The connection between the front ends of the side rods 5 includes a cross rod 12 secured at its ends in T-connectors 13 mounted on the side rods 5. The supporting stand may be proportioned as desired as well as specifically dimensioned to accommodate its use for the purposes intended, such as in home laundry, restaurant use and the like, and it is also intended that the supporting

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stands may be arranged in multiple to provide a battery of burners and with a single gas service supply.

A burner is removably mounted on the side rods 5 of the supporting stand, the burner comprising an elongated neck 14 of generally tapering formation with a valved air inlet 15 at the smaller end and an enlarged burner head 16 at its other end. Bracket arms 17 extend diametrically from opposite sides of the enlarged end of the burner neck 14 and are curved in upward directions towards their upper ends and terminate in arcuate supporting straps 18 for free mounting upon the side rods 5. The upper curvature of the bracket arms 17 presents the burner head 16 in a plane below the side rods 5 when the burner is mounted upon the supporting stand. The burner is readily detachable from the supporting stand to facilitate cleaning or repair thereof.

The supply of gas to the burner is afforded by a city service gas line 19 having a union connection 20 with a horizontal pipe 21 that is supported on the front legs 6 of the supporting stand by means of bearing collars or sleeves 22 carrying clips 23 engageable with the pipe 21. As shown in Figure 1, the pipe 21 extending beyond the supporting stand has a screw cap 24 that may be removed when it is desired to arrange the supporting stands in battery formation and with a union connection between adjacent ends of pipes 21 carried by the respective supporting stands. The gas pipe 21 is formed of two sections with the adjacent open ends thereof entering the T-fitting 25, the leg 26 of which is provided with a hand valve 27 controlling the flow of gas into the air valve controlled opening 15 of the burner. As shown in the drawings, the side rails 5 extend in parallelism, with the ends 10 and 12 extending at right angles thereto, thus providing a rectangular frame upon which it is possible to support the burner zone, the frame being supported on legs located in corner zones of the frame. The end connection 12 is located inwardly from the ends of the side rods 5, so that the front legs are carried directly by the ends of the side rods through elbows 8, thus spacing the front legs equal to the spacing of the side rods. End connection 10 is mounted at the rear of the frame, and hence the rear legs 7 are carried at the ends of connection 10, T-connection 9 carrying a nipple axially alined with connection 10 to which a leg 7 is secured by elbow 11. As a result, the spacing of the rear legs is greater than those of the front legs.

As a result, the two points of contact with the

supporting surface at each side of the assembly are positioned in such way that a line connecting a front and rear leg will extend angular to the direction of length of a side bar. Hence, any attempt to upset the stand by pressure against the opposite side would force a movement on such line instead of on the line of the side rod. As is apparent, any weight which is placed on the top of the frame, as a plate carrying the material-containing utensil being heated by the burner, will be made manifest within the rear zone and thus add to the difficulty of upsetting the frame, the wider spacing of the rear legs making the weight of greater stabilizing effect.

From the above detailed description of the invention, it is believed that the construction and use thereof will at once be apparent, it being noted that in view of the simplicity of construction the gas burner supporting stand can be inexpensively manufactured and the advantages thereof when used for home laundry or restaurant service will at once be appreciated. The rod construction of the supporting stand lends extreme durability and when used for laundry purposes is capable of supporting heavy tubs or vats. Safety features of the invention are important ones in that the gas line is entirely independent of the rod structure of the supporting stand. It is also to be understood that additional burners may be mounted in a single stand.

While there is herein shown and described the preferred embodiment of the invention, it is to be understood that minor changes may be made therein such as will fall within the scope of the invention as claimed.

What is claimed is:

1. A stand for gas burner service comprising a rectangular frame formed of parallel side rods and parallel end rods extending normal to the side rods, supporting legs for the frame depending from corner zones at opposite ends of the frame, the legs at the rear end of the frame being spaced a greater distance apart than those of the front end to form a stabilizing support for the frame, a gas supply pipe supported on the front legs, and a gas burner having a neck portion in communication with the gas supply pipe with its burner zone located below the top plane of the frame and intermediate and spaced from the side rods, means being removably carried by such side rods and in transverse alinement with the burner zone for movably supporting the burner in such position.

2. A stand as in claim 1 characterized in that the rear end rod of the frame is positioned at the rear ends of the side rods, the front end rod being positioned inward and spaced from the front ends of the side rods, the front legs depending in the planes of the side rods with the rear legs depending from the plane of the rear end rod.

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