

PATENT SPECIFICATION



Application Date: Dec. 24, 1919. No. 32,341 / 19.

148,721

Complete Accepted: Aug. 5, 1920.

COMPLETE SPECIFICATION.

Improvements in Vapour Stoves.

We, KYNOCH LIMITED, Lion Works, Witton, Birmingham, Manufacturers, and RICHARD HENRY STEPHENS, 40, Church Road, Moseley, Birmingham, Engineer, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

10 This invention relates to oil or spirit vapour stoves of the type in which oil is raised from a container through a central supply conduit to a vaporiser.

15 The object of the present invention is to provide improved means for carrying the grid and securing the supports to the container.

20 The grid is supported by means of eyes or loops upon its underside engaging hooked upper ends of rod supports which are inclined towards the centre of the container, and are fixed to the pre-heater or spirit cup at the top of the oil container by passing them through arch parts or bridge pieces preferably raised out of the side of the cup and by engaging them within holes in a flange at the upper end of the said cup.

30 Figure 1 of the accompanying drawings is a vertical section through a vapour stove constructed in accordance with this invention, the oil container being shown in elevation.

Figure 2 is a plan of the stove.

35 Figure 3 is a section on line x , Figure 1.

Figure 4 represents a section on x^1 , Figure 1, showing the preheater in plan.

40 The grid 20 consists of a casting or stamping in the form of a ring having,

at equi-distant points around its periphery, a number of radially-disposed rests or supports 21 for the cooking utensil, whilst beneath these rests are depending eyed lugs 22 arranged in planes at right-angles to the respective rests. These eyed lugs are engaged by outwardly bent hooks 23 at the upper ends of a series of rod supports 24 which are inclined in a direction towards the centre of the oil container 25, their lower ends entering a pre-heater or spirit cup 26 fixed to the top of said container. This spirit cup 26 is of conical form, with air-inlet 27 apertures in its upper part, and its upper edge is turned in at right angles to form a flange 28. This flange is pierced with holes 29 to receive the supports 24, which are also passed under arch parts 30 raised out of the wall of the cup. By this means the grid is rigidly supported in position. Air-inlet holes are also provided at 31.

65 The construction of the spirit cup as indicated above ensures a better and quicker combustion of the spirit and at the same time protects the flame from draughts; and by reason of its height and the formation of the top, the valve spindle 32 is protected from the heat of the preheater.

The method of supporting the grid, as described above, allows of the entire stove being lifted by the said grid.

75 If necessary, the arch parts 30 may be separate pieces secured to the inside of the cup, instead of being raised out of the walls.²

80 Having now particularly described and ascertained the nature of our said inven-

[Price 1/-]

tion and in what manner the same is to be performed, we declare that what we claim is:—

5 1. In a vapour stove, means for supporting the grid comprising rod supports inclined downwards towards the centre of the container and having hooked upper ends engaging eyes or loops upon the
10 said supports being fixed to the preheater or spirit cup at the top of the container by engaging holes in a flange at the upper

end of the said preheater and passing through arch parts carried by the side of the latter, substantially as described. 15

2. In a vapour stove, the improved means for supporting the grid, substantially as herein described.

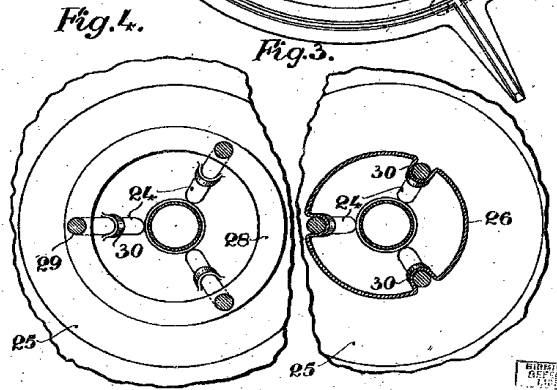
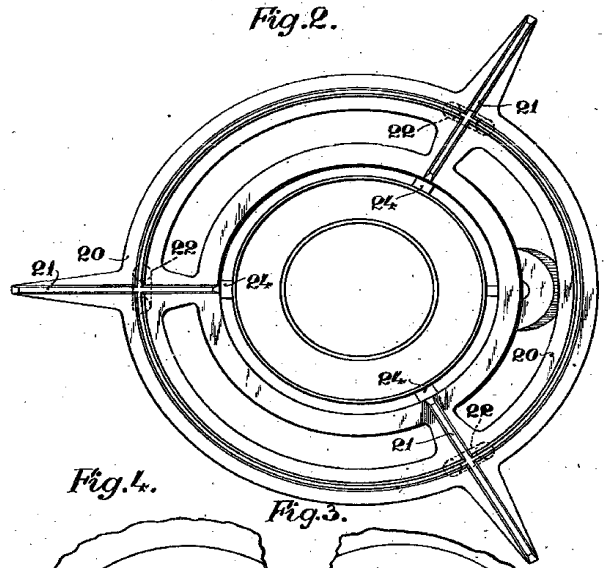
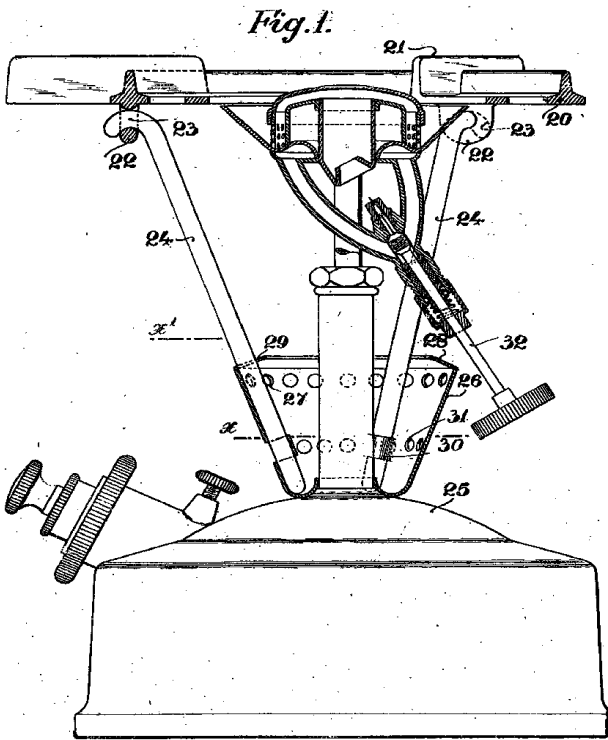
Dated this 23rd day of December, 1919.

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SHEET 1.

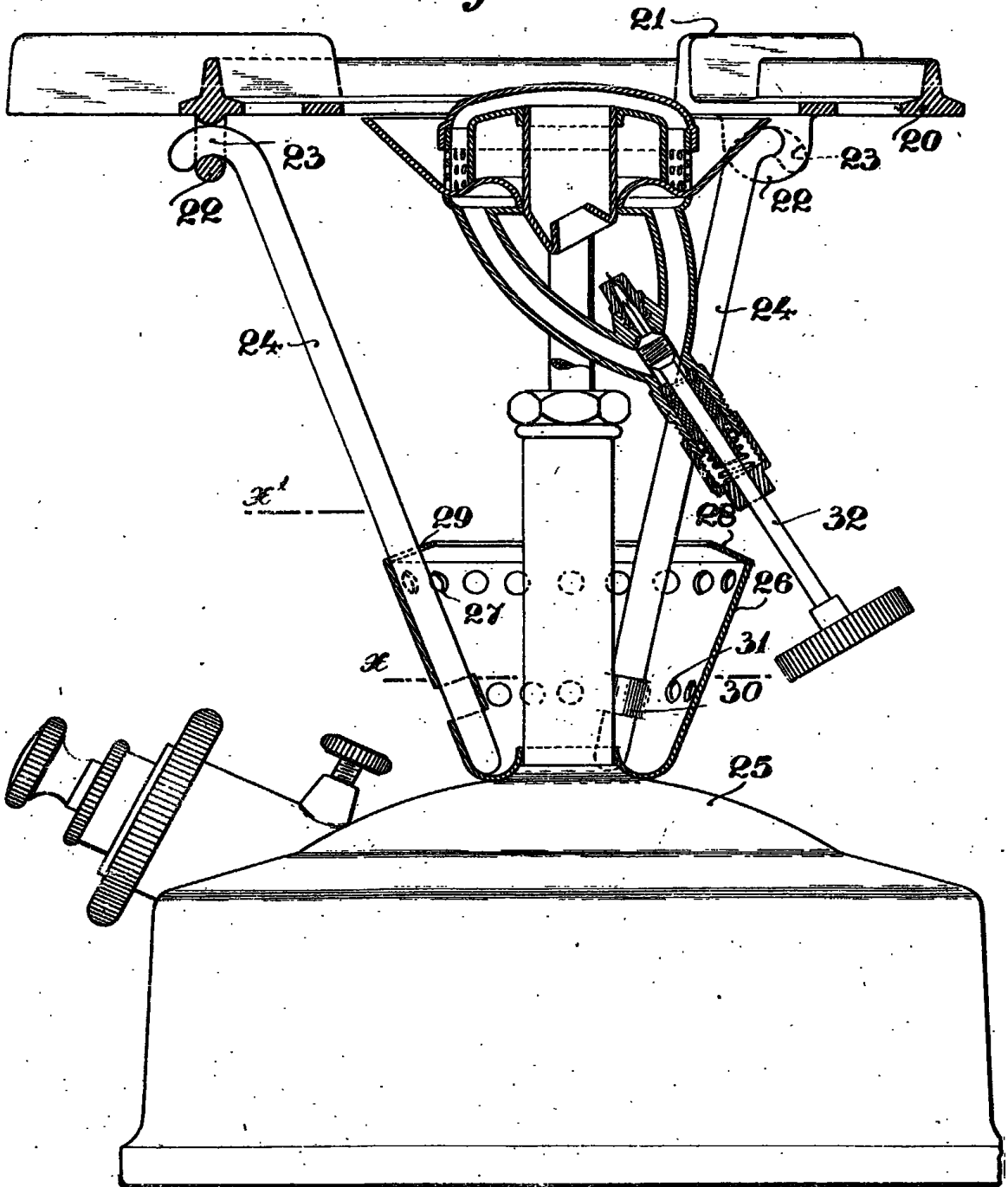
SHEET 2.

[This Drawing is a reproduction of the Original on a reduced scale.]



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Fig. 1.



[This Drawing is a reproduction of the Original on a reduced scale.]

Fig. 2.

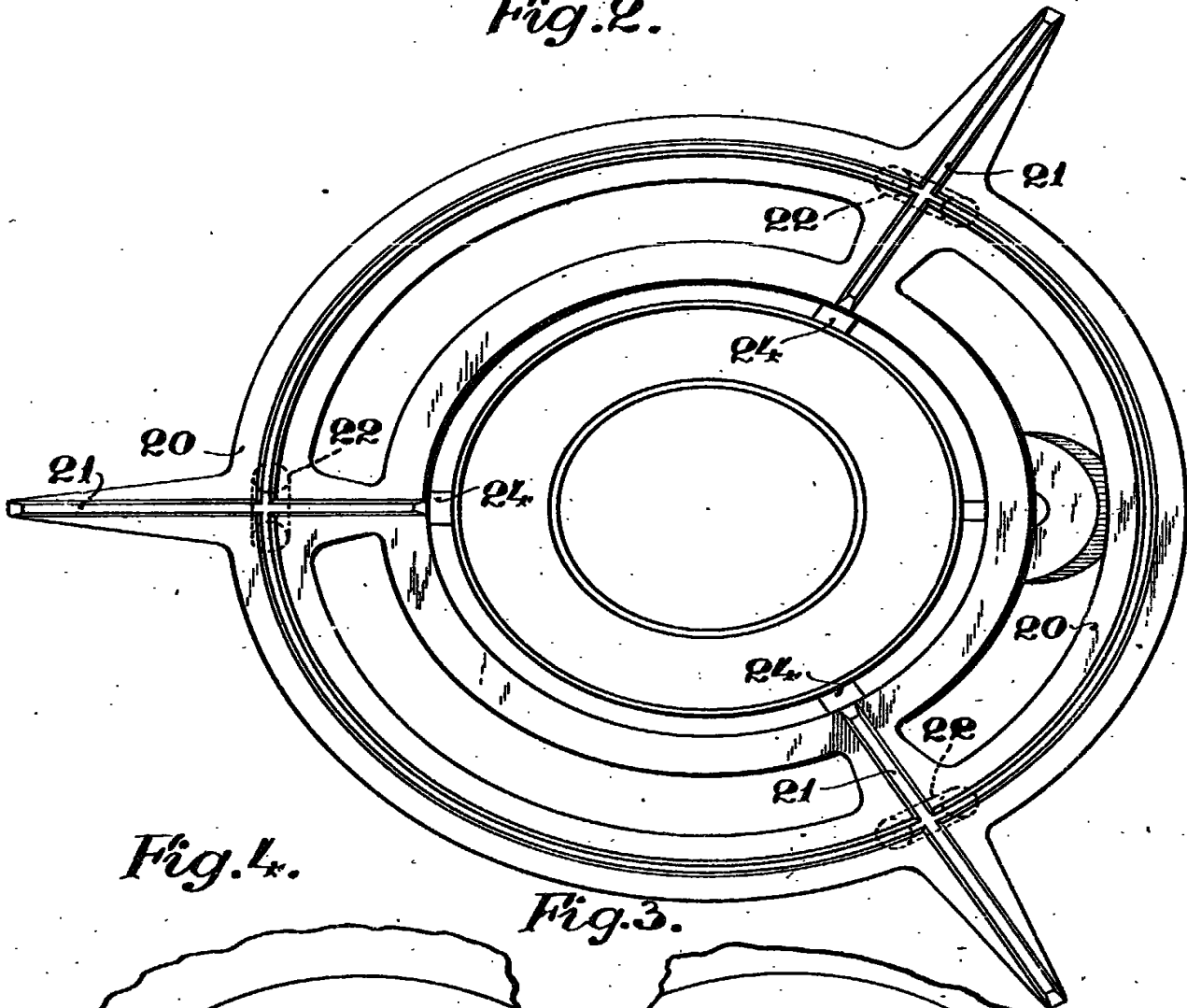


Fig. 4.

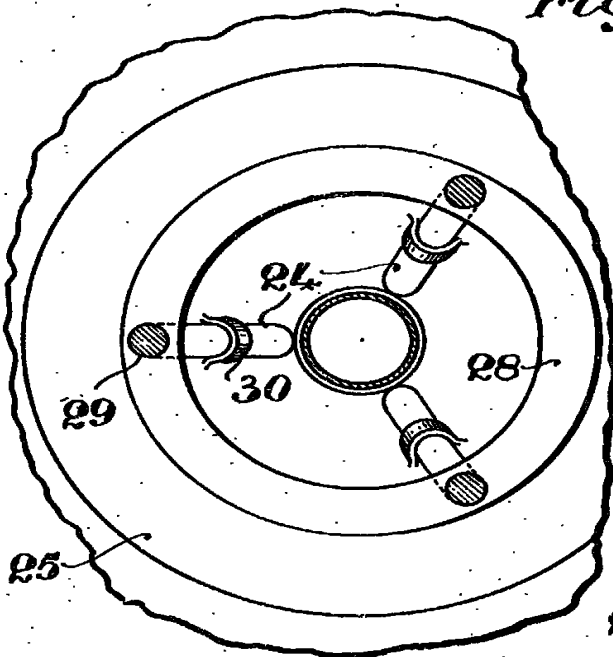
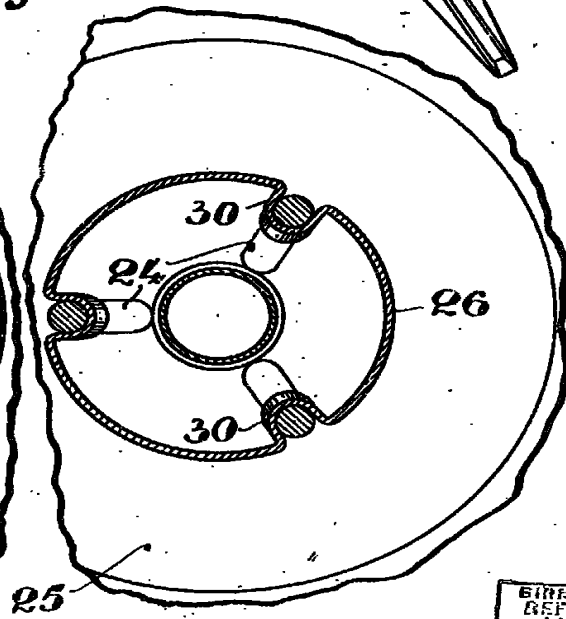


Fig. 3.



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