

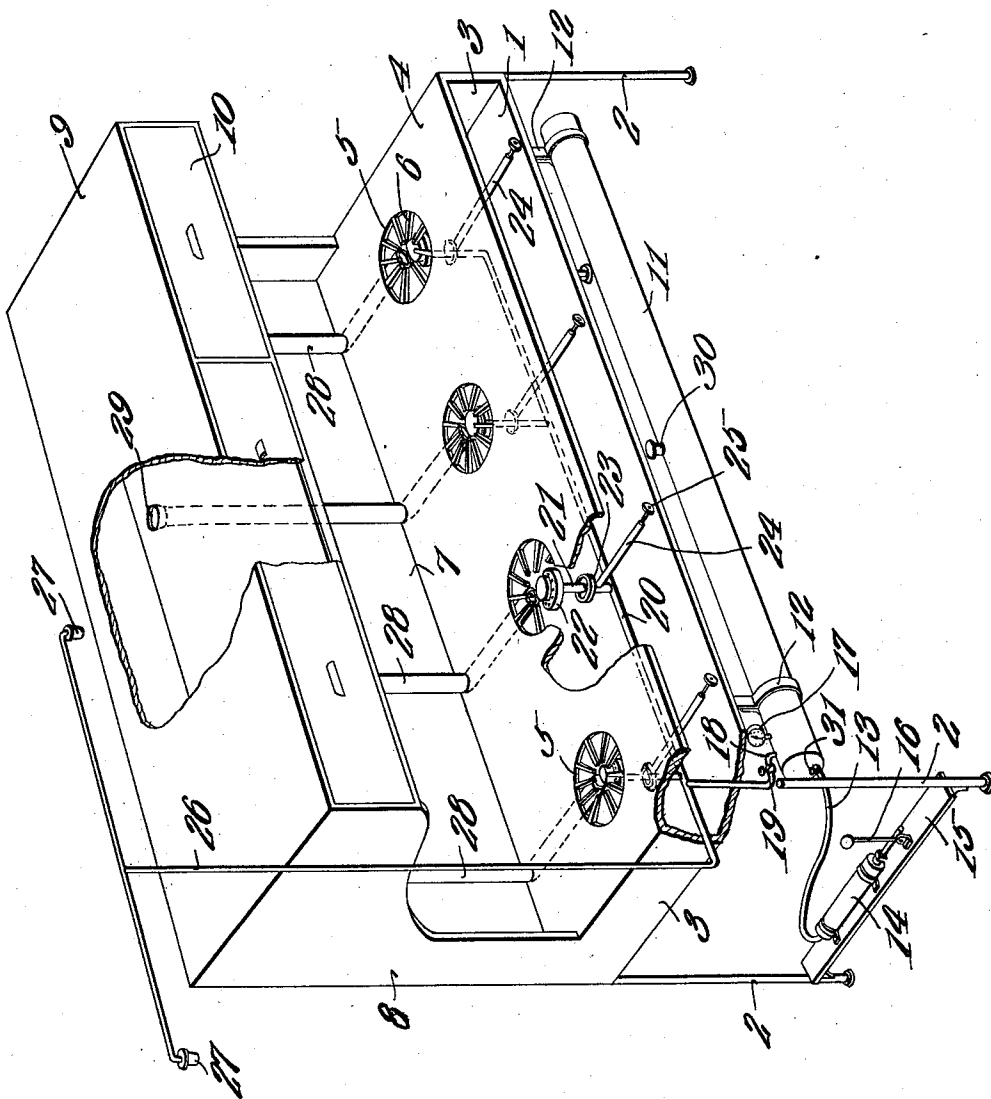
N. GLICK.

STOVE.

APPLICATION FILED JAN. 16, 1911.

1,001,017.

Patented Aug. 22, 1911.



Witnesses

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UNITED STATES PATENT OFFICE.

NICKLOS GLICK, OF SYLVAN GROVE, KANSAS.

STOVE.

1,001,017.

Specification of Letters Patent. Patented Aug. 22, 1911.

Application filed January 16, 1911. Serial No. 602,970.

To all whom it may concern:

Be it known that I, NICKLOS GLICK, a citizen of the United States, residing at Sylvan Grove, in the county of Lincoln and State of Kansas, have invented a new and useful Stove, of which the following is a specification.

This invention relates to stoves for burning liquid fuel, such as gasolene and like hydro-carbons and one of its objects is to provide means whereby the fuel may be placed under pressure so as to be forced to the point of consumption.

A further object is to provide means whereby air may be employed not only for the purpose of maintaining the fuel under pressure but also for commingling with the fuel so as to render it more readily combustible.

Another object is to provide a stove of this type which is compact in construction and can be readily operated with the minimum danger.

With the foregoing and other objects in view the invention consists in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of invention herein disclosed can be made within the scope of what is claimed without departing from the spirit of the invention.

In the accompanying drawing, which is a perspective view of a stove embodying the present improvements, the preferred form of the invention has been shown.

Referring to the drawing by characters of reference 1 designates a table supported by suitable legs 2 and walls 3 extend upwardly from this table and support a top plate 4 provided with a series of openings 5 within which are arranged radial supporting fingers 6. A back wall 7 projects upwardly from the table and side wall extensions 8 also project upwardly from said table, this back wall and the extensions serving to support a warming oven 9 overhanging the plate 4 and having one or more doors 10 whereby access may be had conveniently to the interior of said oven.

A fuel tank 11 is supported below the table top 1 in any preferred manner, as by means of hangers 12, this tank being preferably cylindrical and of substantially the same length as the table. A pipe 13 connects one end of the tank with a pump cylin-

der 14 which is mounted upon a supporting bracket 15 carried by two of the table legs. The piston in the above cylinder may be operated in any preferred manner, as by means of a hand lever 16 mounted on the bracket. A pressure gage 17 is preferably connected to the tank 11, as shown.

Extending from the upper portion of the tank 11 is an outlet pipe 18 suitably valved, as indicated at 19, this pipe opening into a distributing pipe 20 arranged within the compartment formed between the table top 1 and the top plate 4. This distributing pipe is disposed directly under the openings 5 and has upwardly extending burner pipes 21 projecting therefrom toward the centers of the openings, each of said pipes 21 being provided, at its upper end, with a burner 22 of any preferred construction. A cup may be mounted on each of the pipes 21 directly below the burner thereon, this cup being designed to hold alcohol or other fuel to be used in starting the vaporization of the fuel within the burner. Tubular arms are extended forwardly from the pipes 21 and carry needle valves 25 whereby the passage of fuel through the pipes 21 may be controlled.

The pipe 20 may be employed not only for the purpose of distributing fuel to the various burners 22 arranged in the stove, but can also be extended to one or more points remote from the stove, as indicated at 26, a suitable number of burners 27, for illuminating purposes, being connected to this pipe. A hot air flue 28 is extended between the plate 4 and the top of the table and extends up to each of the burners 22 so as to be heated by the flame and to receive a quantity of hot gases. Each of these flues extends upwardly, at the rear of the stove, to the oven 9 and opens into the oven, as indicated at 29.

Fuel is supplied to the tank 11 through an inlet suitably located and which is normally closed in any desired manner, as by means of a screw cap 30. Air is then forced into the cylinder or tank 11 by means of the pump and until a suitable pressure, indicated at 17 has been obtained. A valve, located in the pipe 13, is then closed and the valve 19 is opened. Fuel will thus be forced through the pipe 18 and into the distributing pipe 20 and, after opening one or more of the valves 25, the fuel is permitted to flow into the burners 22 where it will be vapor-

ized by the burning fuel contained in the cups 23. After the fuel in the burner has been ignited, the heat generated will continue to vaporize the fuel as it is supplied to the burner, this operation being common to various types of burners utilizing liquid fuel. A portion of the heat generated will be conducted through the flues 28 to the oven 9.

It will be seen that the compartment formed between the table top 1 and the top plate 4 is open at the front so that air can enter it freely and, after being heated, can pass into the forwardly extending portions of the tubes 28. Thus, while the products of combustion escape upwardly through the openings 5, pure air supplied to the compartment above the table top is heated and permitted to flow into the tubes 28 and thence to the oven 9.

By arranging the tank 11 under the table top, as shown, danger of explosion in the tank is reduced to the minimum.

It will be seen that the stove is of compact construction, and has very few parts, all of which can be easily reached for the purpose of repairing or cleaning them.

What is claimed is:—

A stove comprising a table, a top plate supported thereabove, there being a compartment between the table and the top plate, said compartment being open at the front thereof, a back plate upstanding from the table, a warming oven supported thereby and overhanging the top plate, a burner supported within the compartment below the top plate, said top plate having an opening above the burner, a hot air conducting tube extending along the front face of the back plate and forwardly within the compartment below the top plate; the lower end of said tube being located close to the burner and the upper end of the tube opening into the bottom of the warming oven, that portion of the tube upon back plate being raised to be heated from the burner.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

NICKLOS GLICK.

Witnesses:

FRED THUM,
M. S. KELLY.