

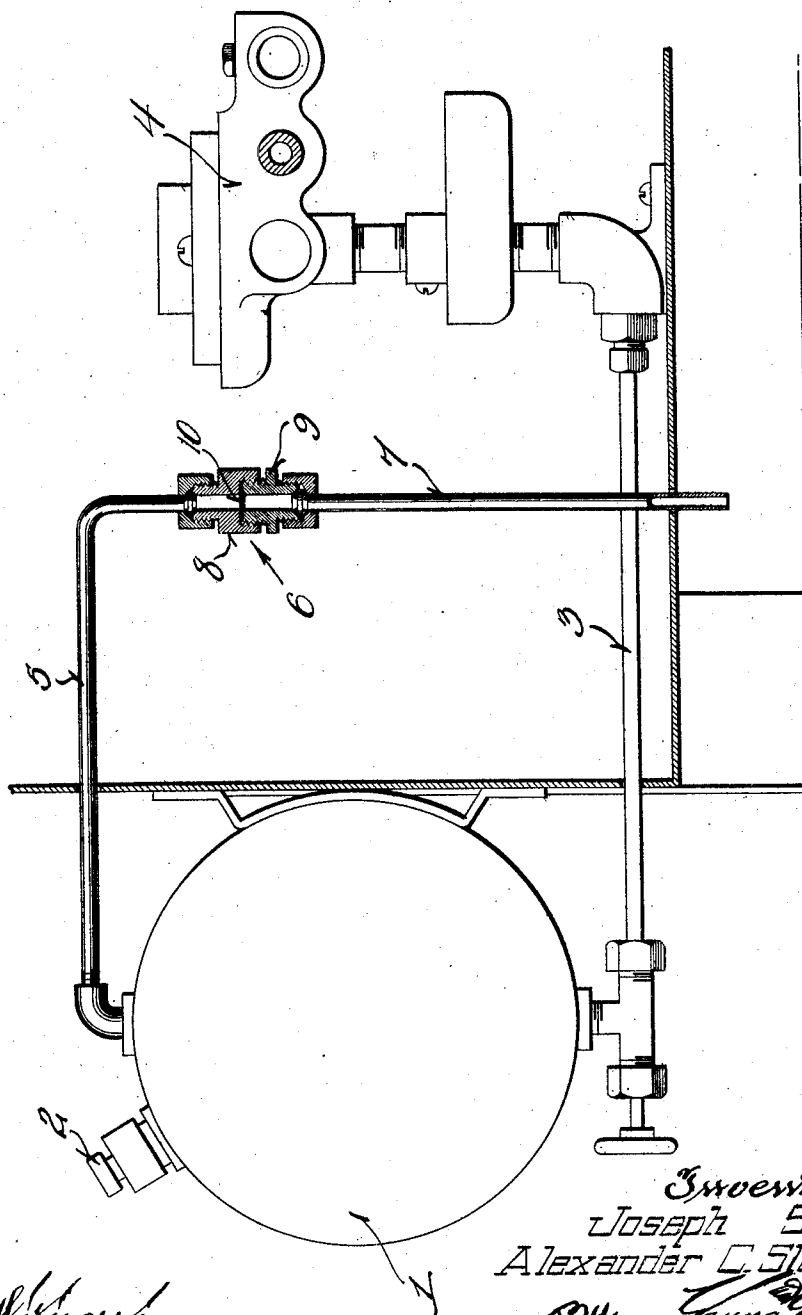
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OIL STOVE

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UNITED STATES PATENT OFFICE.

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OIL STOVE.

Application filed February 6, 1926. Serial No. 86,667.

This invention relates to oil stoves, and is particularly directed to a safety valve arrangement for oil stoves.

In oil stoves it has been usual practice to provide some form of burner for heating the oil to a gaseous state and thereafter burning it. It sometimes happens that the supply tank becomes sufficiently heated to generate excessive pressure with consequent disturbance at the burner resulting in an enormous pressure or dangerously large flame.

This invention is designed to provide means for overcoming the defects noted above, and objects of such invention are to provide a safety device for oil stoves which will relieve all pressure in the supply tank whenever the flame becomes excessive, and which will prevent explosion of the stove or any damage resulting from excessive pressure.

An embodiment of the invention is shown in the accompanying drawings, in which:—

The single figure is a view somewhat diagrammatic of a portion of a stove showing the supply tank, burner and safety device in their relative positions.

Referring to the drawings, it will be seen that a supply tank 1 for the fuel has been provided which is normally pumped up through the fitting 2, so that oil or other fuel is forced through the pipe 8 to the burner, indicated generally at 4. It sometimes happens that the supply tank 1 becomes excessively heated through improper manipulation of the apparatus and, under these conditions, an excessive quantity of oil is furnished the burner. This increases the size and heat of the flame which again reacts upon the supply tank. This invention overcomes the dangers discussed above in a simple manner.

A pipe 5 leads from the upper portion of the tank 1 and extends to a fitting indicated generally at 6. This fitting is placed in the region of the burner 4 and is provided with a downwardly or outwardly extending discharge pipe 7.

The fitting 6 is provided with a pair of members 8 and 9 which are screwed together and which receive between them a fusible disk or wafer-like member 10. When the

flame is too great at the burner, sufficient heat is given to the fitting 6 to fuse the disk 10 and to allow the excess gas pressure to blow off and to thus stop further feeding of the fuel to the burner. This action is wholly automatic and does not require the supervision of the operator.

It will be seen that an extremely simple form of device has been provided by this invention and one which may be cheaply and readily made.

Further, the hazard due to the use of oil stoves is markedly reduced by applying this invention to the usual types of oil stoves.

Further, the usual types of oil stoves can be very readily and easily equipped with this protecting device so as to render them automatic in their action when excessive pressure occurs during the operation of this stove.

Although the invention has been described in considerable detail, such description is intended as illustrative rather than limiting as the invention may be variously embodied and as the scope of such invention is to be determined as claimed.

We claim:

1. An oil stove comprising a supply tank, a burner supplied from said tank, said tank being adapted to contain fuel under pressure, a discharge pipe leading from the upper portion of said tank and having a fitting positioned adjacent said burner, an outlet pipe leading from said fitting, and a fusible member interposed in said fitting between said last mentioned pipes and adapted to be fused when said burner is excessively heated.

2. An oil stove comprising a fuel supply tank adapted to contain fuel under pressure, a burner fed therefrom, a pipe leading from the upper portion of said tank to a point adjacent the burner, a fitting carried by said pipe, an outlet pipe carried by said fitting, said fitting being in two parts, and a fusible disk clamped between said parts.

In testimony that we claim the foregoing we have hereunto set our hands at Milwaukee, in the county of Milwaukee and State of Wisconsin.

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