

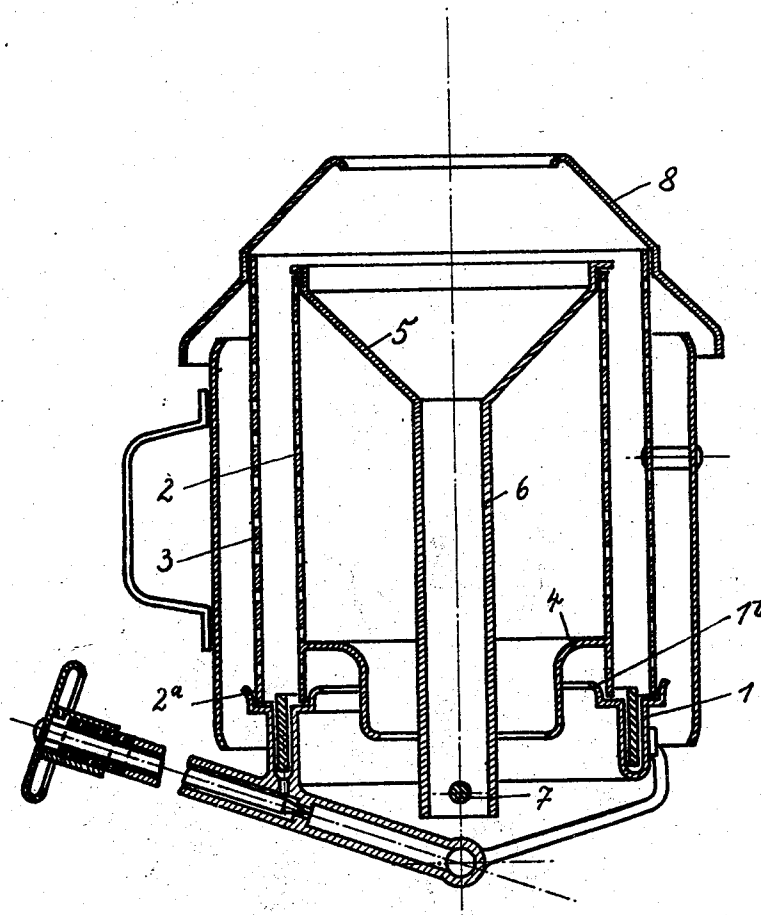
Nov. 16, 1926.

1,607,175

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PETROLEUM COOKING AND HEATING DEVICE

Filed August 12, 1924



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UNITED STATES PATENT OFFICE.

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PETROLEUM COOKING AND HEATING DEVICE.

Application filed August 12, 1924, Serial No. 731,601, and in Germany August 25, 1923.

The present invention relates to a petroleum cooking and heating device of the well known cup burner type, in which the liquid fuel is caused to evaporate in an open burner while two coaxial perforated plate cylinders which bound the said burner supply the rising petroleum-vapors with sufficient air for their complete combustion, while the flow of the petroleum is automatically regulated to produce a full and pure blue flame.

The main disadvantage of all known types of cup-burners consists in the fact that a flame several feet high will burst forth, if water enters the cup which is filled with boiling petroleum, whereby a fire may be caused. The entrance of the water may be due to wet pots, boiling-over, leaking pots etc. Protective devices so far developed do not afford complete safety and economy, as they permit only part of the flame to reach the pot to be heated and thus decrease the efficiency of the cooking device.

It is the main object of the present invention to remove this disadvantage, and this is achieved, and effective protection secured by the combination of a burner, a cap, funnel and discharge pipe therefor, the pipe being attachable to the funnel to extend centrally through the burner.

One embodiment of the invention is illus-

trated in the accompanying drawing which shows a vertical section through the device.

The cup, in which the petroleum is caused to evaporate by the action of the heat developed in the burner, is indicated by the numeral 1, while 2 and 3 are the inner and outer co-axial, perforated plate or sheet metal cylinders. The outer cylinder is firmly connected with the cup at 2^a, while the inner cylinder snugly rests upon a spherical surface 1^b of the cup. 4 is the double bottom through which the lower part of the burner is positively supplied with part of the air required for combustion. 5 is the funnel which catches any water entering the inside; 6 is the discharge pipe which by means of a winged nut 7 also serves for fastening the burner to the frame; 8 is the cap for discharging overflowing water.

I claim:

A cooking or heating device comprising the combination of a burner, a cap, funnel and discharge pipe therefor, the pipe being attachable to the funnel to extend centrally through the burner in order to provide for effective protection against the entrance of water into the burner.

In testimony whereof I have affixed my signature.

KARL ADOLF SEIFERT.