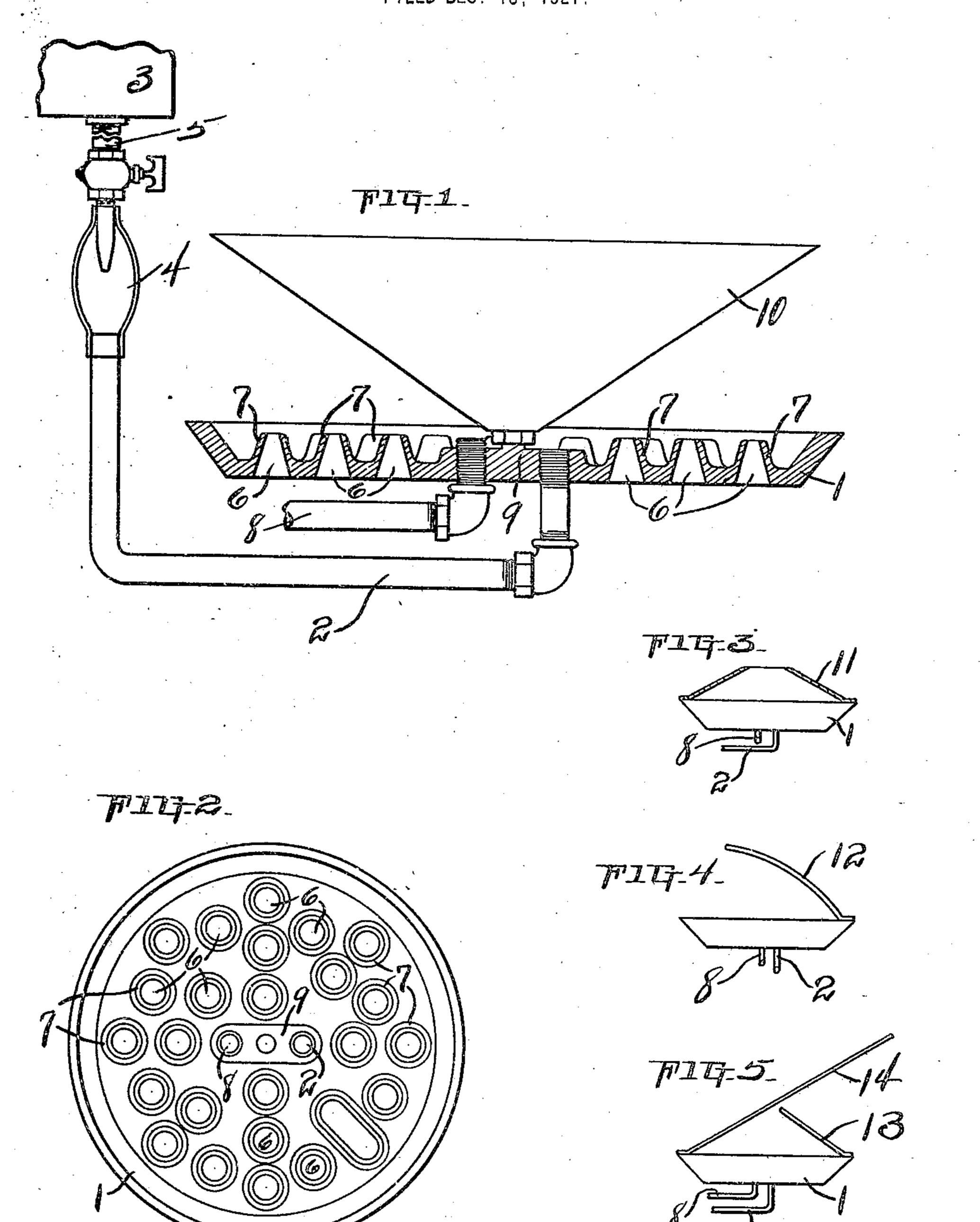
H. W. LOVETT. LIQUID FUEL BURNER. FILED DEC. 15, 1921.



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UNITED STATES PATENT OFFICE.

HOWARD W. LOVETT, OF MIDLOTHIAN, TEXAS, ASSIGNOR OF FORTY-NINE ONE. HUNDREDTHS TO S. A. COWART, OF MIDLOTHIAN, TEXAS.

LIQUID-FUEL BURNER.

Application filed December 15, 1921. Serial No. 522,464.

To all whom it may concern:

citizen of the United States of America, re-5 and State of Texas, have invented certain Fuel Burners, of which the following is a

specification.

My invention relates to liquid fuel burners 10 and more particularly to burners for utilizprovide burners which can be manufactured flame in a heater. at small cost and which can be installed reactily in any heater, cook stove, or furnace for 15 immediate use, and which can be used with any ordinary liquid fuel, such as kerosene oil and fuel oil and distillate and which will be highly efficient in cooking and heating. Other objects and advantages will be fully 20 explained in the following description and pointed out in the claims.

drawings which form a part of this applica-

25 tion.

provided with a spreader and pipe connections. Fig. 2 is a plan view of the fuel pan. Fig. 3 illustrates a style burner for a 30 furnace, being provided with a hood for concentrating the heat on the object to be Fig. 2. heated. Fig. 4 illustrates a form of fuel pan to be used in a cook stove. Fig. 5 illustrates the kind or form of burner for use in 35 an open fire place.

Similar characters of reference are used to indicate the same parts throughout the

several views.

able material, such as clay. A supply pipe said supply pipe. 2 is to be connected with a fuel tank 3 for 2. A liquid fuel burner comprising a fuel vided with sight feed 4. A transparent globe and projections upstanding above the bot-45 4 is mounted on the feed or supply pipe 5 tom and perforated for passage of air for 100 which projects down into the globe so that aiding combustion, said bottom having a the oil will not strike the sides and obscure raised portion in the central part thereof, 50 The pan 1 is provided with a plurality of through said supply pipe, and means for de- 105 combustion. The openings 6 are made in fuel pan. bosses or nipples 7 which project above the bottom so that oil will not flow out through 3rd day of December, 1921. 55 the bottom of the pan. In case of too much

liquid fuel, an overflow pipe 8 is provided Be it known that I, Howard W. Lovett, a for taking care of the overflow which can be carried to any suitable receptacle. The siding at Midlothian, in the county of Ellis overflow pipe 8 projects higher up above the bottom of the fuel pan than the supply pipe 60 new and useful Improvements in Liquid- 2. The fuel pan 1 has an elevated portion 9 through which supply and overflow pipes project so that there will be no interference by oil or fuel in the fuel pan.

In the form of burner shown in Fig. 1, a 65 ing unrefined crude oil; and the object is to spreader 10 is provided for use in spreading

The burner shown in Fig. 3 is provided with a hood 11 for concentrating the flame or heat on an object to be heated.

The burner shown in Fig. 4 is provided with a deflector 12 for throwing the flame towards the front of a cook stove so that the flame will double back over the oven.

The burner shown in Fig. 5 is provided 75 the invention will be more particularly with a deflector 13 for throwing the flame towards the front and is also provided with a Reference is had to the accompanying deflector 14, for throwing the flame back towards the chimney or flue.

The utility of this improved burner has 80 Fig. 1 is a vertical section of the fuel pan been thoroughly demonstrated and is found to be highly efficient for the various pur-

poses named above.

The projections 7 and the openings 6 may be of different design or form, as shown in 85

What I claim, is,—

1. A liquid fuel burner comprising a fuel pan having an approximately level bottom and projections upstanding above the bot- 90 tom and perforated for admission of air, said bottom having a raised portion in the central part thereof, supply and overflow pipes The burner is provided with a fuel pan projected from below up through said raised 40 1 which may be a metal casting or other suit- portion, and means for feeding fuel through 95

feeding fuel to the pan. This pipe 2 is pro- pan having an approximately level bottom the sight. The liquid fuel is fed to the pan supply and overflow pipes projected through 1 and will spread over the entire bottom. said raised portion, means for feeding fuel openings 6 for admission of air for aiding flecting the flame and heat rising from said

In testimony whereof, I set my hand, this

HOWARD W. LOVETT.