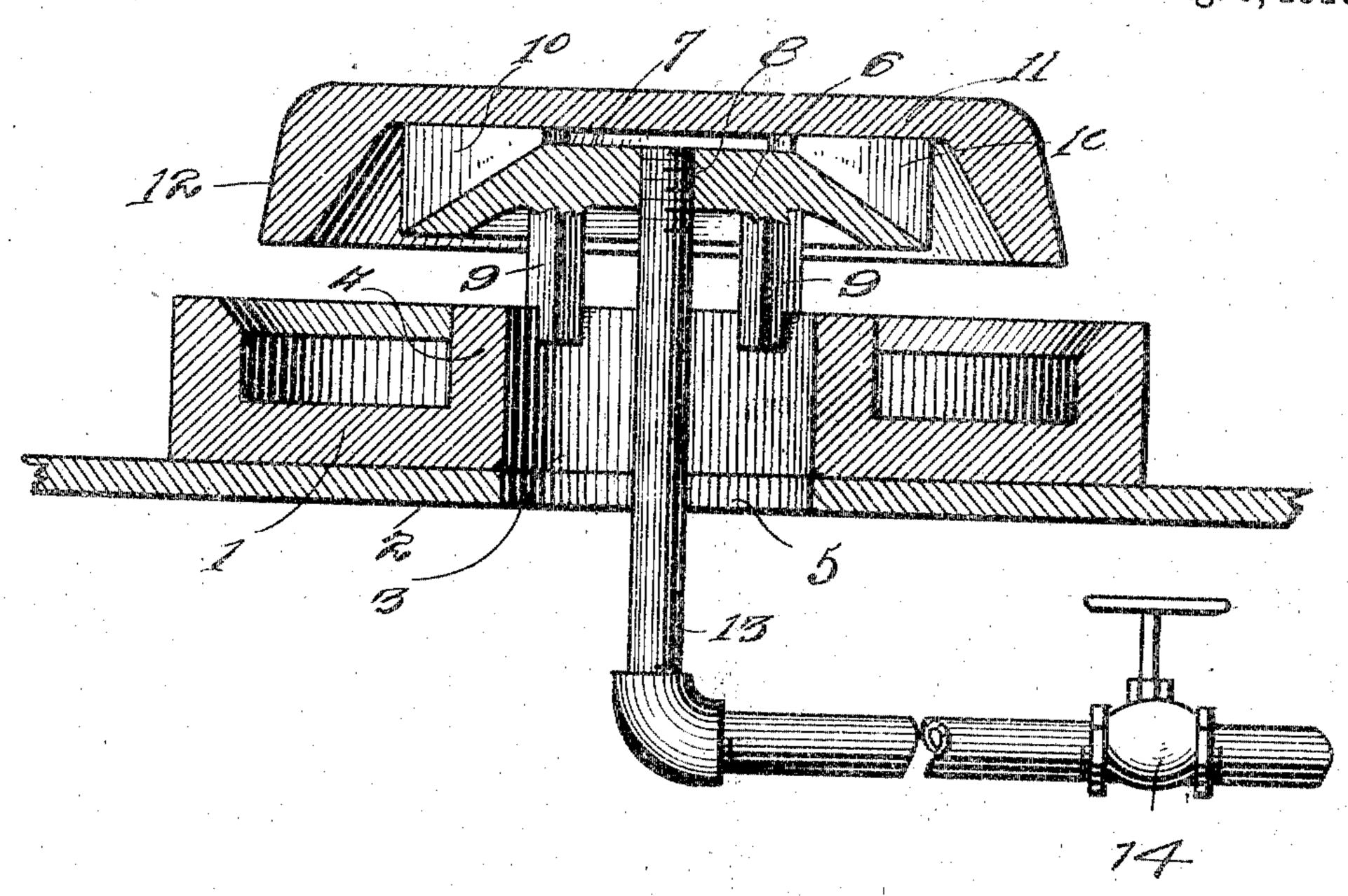
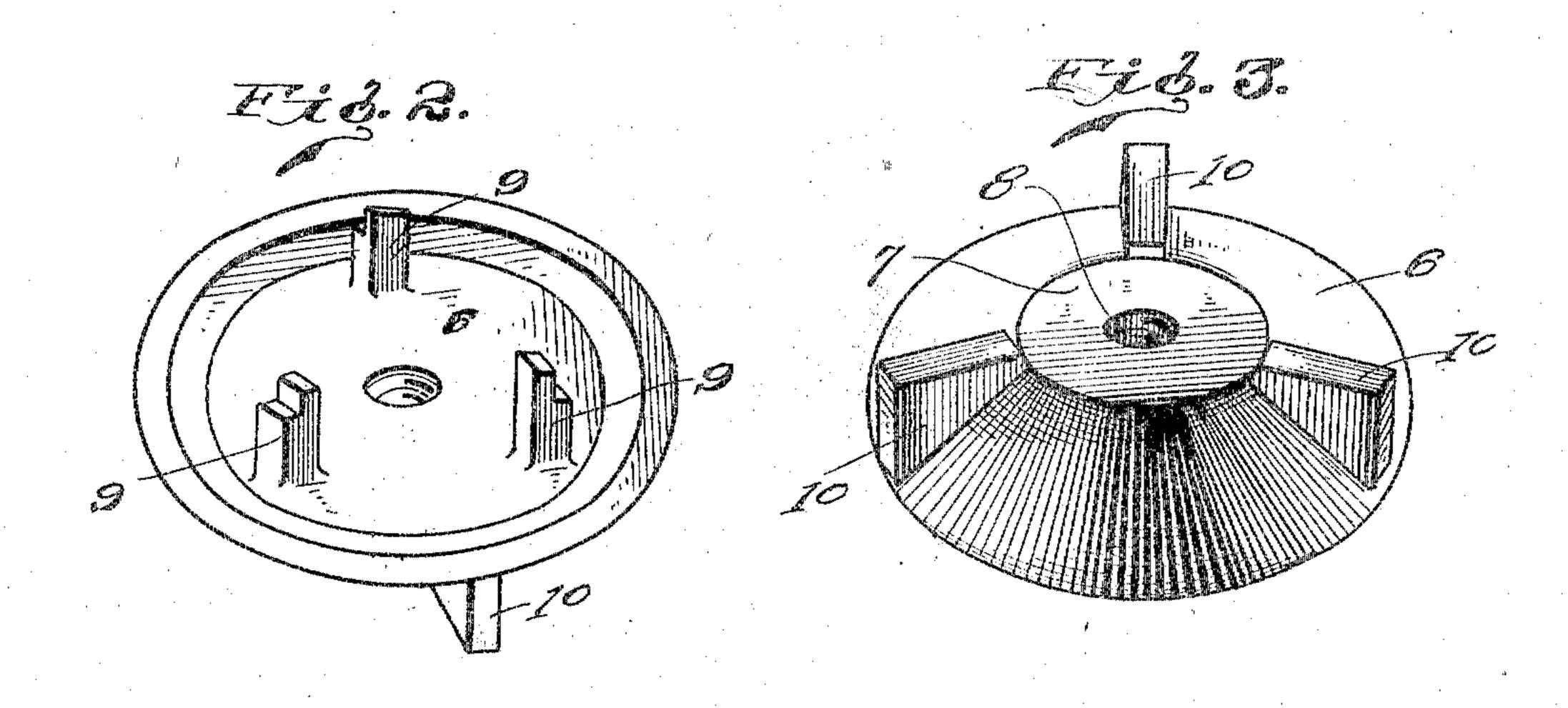
B. F. MoMAHON. OIL BURNER. APPLICATION FILED FEB. 26, 1910.

967,037.

Patented Aug. 9, 1910.





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UNITED STATES PATENT OFFICE.

BENET F. McMAHON, OF BEATTIE, KANSAS.

OIL-BURNER.

967,037.

Specification of Letters Patent.

Patented Aug. 9, 1910.

Application filed February 26, 1910. Serial No. 546,100.

To all whom it may concern:

residing at Beattie, in the county of Mar-5 shall and State of Kansas, have invented certain new and useful Improvements in Oil-Burners, of which the following is a specification, reference being had therein to the accompanying drawing.

10 This invention relates to oil burners, especially adapted for burning crude oil, and the principal object of the same is to provide a novel type of oil distributer and coöperating spreader cap and overflow pan, all of which 15 mutually contribute to produce a burner in which a thorough combustion of the fuel is

obtained with the resulting increase in the

heat generated by the burner.

In carrying out the objects of the inven-20 tion generally stated above it will be understood, of course, that the essential features thereof, are necessarily susceptible of changes in details and structural arrangements, one preferred and practical embodiment of which 25 is shown in the accompanying drawings, wherein:-

Figure 1 is a central vertical sectional view of the improved oil burner. Fig. 2 is an inverted perspective view of the oil distributer. Fig. 3 is a perspective view of the oil distributer viewed from the top thereof.

The improved burner is equally adapted for use in connection with a heating or cooking stove, and comprises an overflow pan 1 35 that is suitably attached to a support 2 within a firebox of a stove so that the pan will be rigid with said support. The pan may be annular or other shape to adapt it to the type of firebox in which it is mounted and is 40 provided with a central air opening 3 that is surrounded by the upstanding guard flange The support 2 is provided with an open-

ing 5 that alines with the opening 3 of the pan 1 so that the air will have an unobstruct-

45 ed circulation through said opening 3. A substantially frusto-conically shaped fuel distributing plate 6 has a flat top 7 through which a threaded opening 8 is formed. Said plate is provided with pend-50 ent supporting legs 9 the free ends of which are notched so that they may have a firm interlocking engagement with the upper edge of guard flange 4 to retain said plate spaced from said upper edge.

The inclined upper surface of plate 6 is 55 Be it known that I, Bener F. McMahon, provided with a plurality of regularly a citizen of the United States of America, | spaced apart supporting lugs 10 preferably arranged in radiating relation to the center of said plate, said lugs serving as supports to retain the flame deflecting cap 11 over and 60 spaced from plate 6. Said cap is provided with a pendent outer flange 12 that inclines outwardly.

> A fuel supply pipe 13 equipped with a controlling valve 14 extends through the air 65 openings of support 2 and pan 1 and has a threaded engagement with the opening 8 of

plate 6.

flange 4.

Plate 6 overlaps the upper end of guard flange 4 and is dished on its undersurface, 70 so that fuel which flows down the inclined outer surface of said plate 6 is prevented from flowing around the lower edge thereof and dropping through the air supply open-

ings 3 and 5. In use, fuel is fed through pipe 13 to the top surface of plate 6 and flows down the inclined portion thereof and is caught in pan 1. The fuel being ignited on plate 6, it will be seen that cap 11 becomes highly heat- 80 ed so that the subsequent fuel is vaporized. The flame from the burning fuel is deflected by cap 11 and spreads around the lower edge of the flange 12 of said cap, and meets the air that flows over the upper edge of guard 85

What I claim as my invention is:—

An oil burner comprising a pan provided with a central air opening, an upstanding guard flange surrounding said air opening, a 90 distributer plate provided with notched legs adapted for interlocking engagement with said flange to space said plate in overlapping relation to said flange, said plate being provided with a flattened central upper portion 95 having an opening formed therethrough, lugs carried by the inclined upper surface of said plate, a spreader cap supported by said lugs in spaced overlapping relation to said plate, and a fuel feeding pipe having one 100 end communicating with the central opening of said plate.

In testimony whereof I hereunto affix my signature in presence of two witnesses. BENET F. McMAHON.

Witnesses: Joseph Baer, W. W. Potter.