

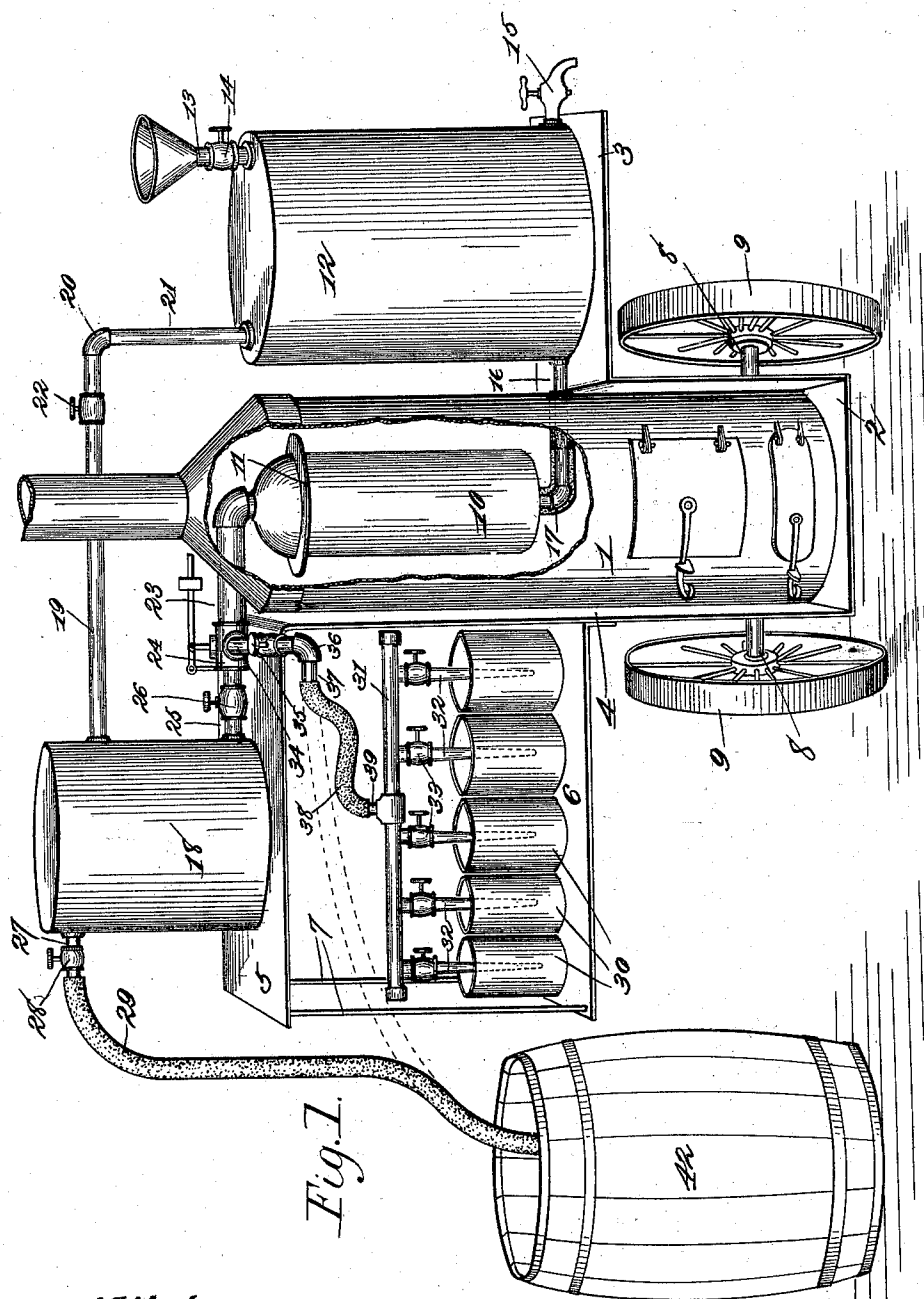
(No Model.)

2 Sheets—Sheet 1.

A. N. ROOKS.
STEAM COOKER.

No. 558,846.

Patented Apr. 21, 1896.



Attest
W. R. Smith :-
Maud Griffin.

Inventor:-
Wm N Rooks:-
by Higdon Higdon Tongan:-
Attys.

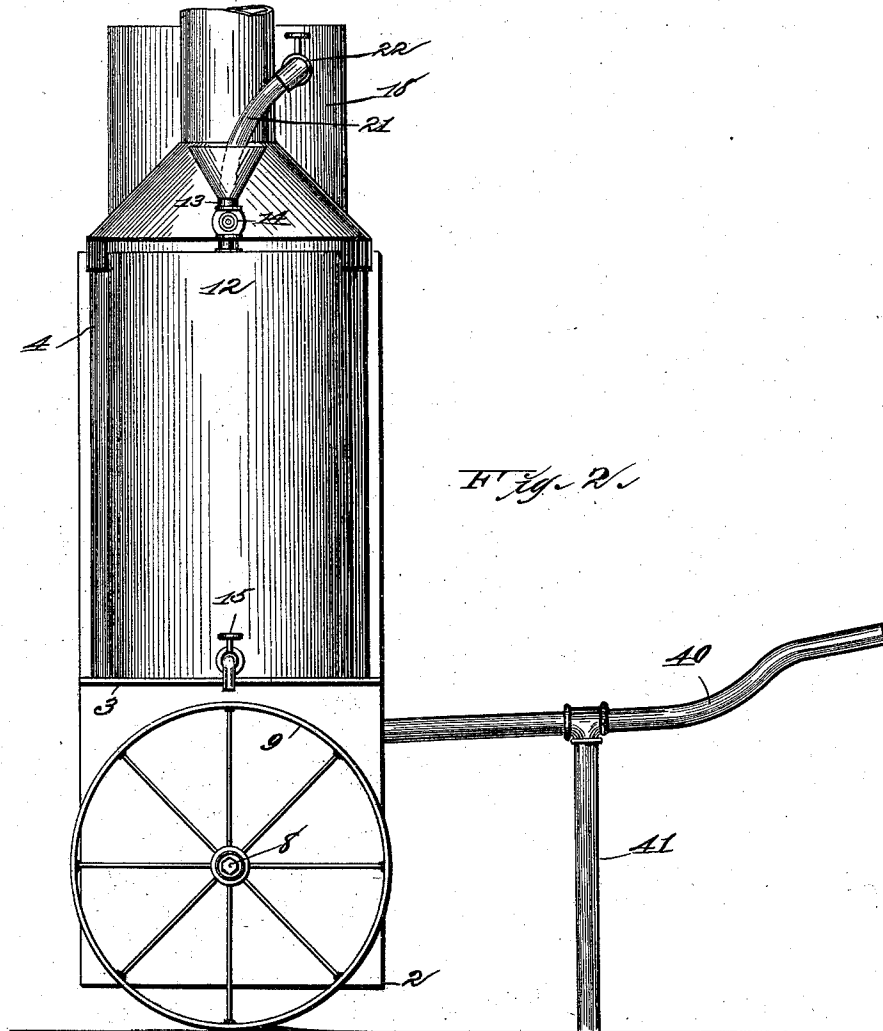
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STEAM COOKER.

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M. P. Smith,
Maud Griffin

Inventor:
Alva N. Rooks:
by Higdon & Higdon & Longan:
Attys.

UNITED STATES PATENT OFFICE.

ALVA N. ROOKS, OF IUKA, ILLINOIS, ASSIGNOR OF ONE-HALF TO EDWARD
D. CRAMER, OF SAME PLACE.

STEAM-COOKER.

SPECIFICATION forming part of Letters Patent No. 558,846, dated April 21, 1896.

Application filed November 26, 1894. Serial No. 529,901. (No model.)

To all whom it may concern:

Be it known that I, ALVA N. ROOKS, of the city of Iuka, Marion county, State of Illinois, have invented certain new and useful Improvements in Steam-Cookers, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming a part hereof.

My invention relates to an improved steam-cooker; and it consists in certain novel features of construction, combination, and arrangement of parts hereinafter described and claimed.

In the drawings, Figure 1 is a perspective view of the complete cooker constructed in accordance with my invention, and Fig. 2 is a side elevation of said cooker.

Referring by numerals to the accompanying drawings, 1 indicates an ordinary sheet-metal boiler that is provided with a fire and ash box of common construction. This boiler is mounted upon a frame that is constructed of a single piece of sheet metal bent into U shape, in which U-shaped portion 2 the boiler 1 is located. A platform 3 extends at right angles to the U-shaped portion at a point just above the fire-box of the boiler. The other side 4 of the U-shaped portion 2 extends vertically the entire length of the boiler 1 and at a point adjacent the top of said boiler extends horizontally, thus forming a platform 5. A suitable distance below this platform 5 is a platform 6, that is riveted or bolted to the side 4 of the U-shaped portion 2, said platform 6 being connected at its outer end to the platform 5 by rods 7.

Directly beneath the platforms 3 and 6 and journaled upon stub-axles 8, that are fixed to the sides of the U-shaped portion 2, are small traction-wheels 9. Vertically arranged within the boiler 1 and above the fire-box thereof is a steam-generating receptacle 10. Formed on or fixed to the upper end of this steam-generating receptacle is a flange 11, that extends horizontally from the periphery of the receptacle 10 toward the wall of the boiler 1.

Mounted upon the platform 3 is a water-reservoir 12, the same being provided with an inlet-pipe 13, the same having a funnel fixed to its upper end. A cut-off valve 14 is located in this inlet-pipe 13. An outlet or

exhaust for this water-reservoir 12, comprising a faucet 15, is located near the bottom of said reservoir. A water-inlet pipe 16 extends from the bottom of the receptacle 12 through the wall of the boiler 1 and into the bottom of the steam-generating receptacle 10. That portion of this water-inlet pipe 16 within the boiler 1 is covered with a suitable thickness of asbestos 17 or analogous fire-resisting material.

Mounted upon the platform 5 is a steam-reservoir 18. A horizontal pipe 19 extends from a point near the top of this steam-reservoir 18 to a point directly above the water-reservoir 12. Here said pipe 19 is connected by means of an elbow 20 to a vertical pipe 21, that leads from the top of the water-reservoir 12. A cut-off valve 22 is suitably located in the horizontal pipe 19.

Connections from the top of the steam-generating receptacle 10 to the bottom of the steam-reservoir 18 consist of a horizontally-arranged pipe 23, that passes through the upper end of the boiler 1 and has mounted upon its outer end an automatic cut-off valve 24, said automatic valve being of the ordinary construction. A pipe 25, of a smaller diameter than is the pipe 23, connects this automatic cut-off valve with the lower end of the steam-reservoir 18. This pipe 25 is provided with an ordinary cut-off valve 26.

An exhaust-pipe 27, provided with an ordinary cut-off valve 28, discharges from the upper end of the steam-reservoir 18. The outer end of this pipe 27 is adapted to receive the end of an ordinary hose or flexible tube 29.

Positioned upon the platform 6 is a series of receptacles 30, in which is placed the food that is desired to be cooked. Horizontally positioned directly above these cooking-receptacles is a distributing-pipe 31, from which depend nozzles or tapered pipes 32, the same being provided with cut-off valves 33.

Extending forward from the automatic cut-off valve 24 is a pipe 34, that is provided with a cut-off valve 35. To this end of the pipe 34 is fixed an elbow 36, from which extends in a horizontal direction a short section of pipe 37. An ordinary section of hose or flexible tube 38 is connected at one end to the end of the pipe 37 and at the other end to a pipe

39, that is connected to the center of the distributing-pipe 31.

A pair of handles 40, provided with suitable standards 41, extend rearwardly from the U-shaped portion 2 and serve as means for moving the steam-cooker from one point to another.

The operation is as follows: The water-reservoir 12 being filled with water through the funnel and pipe 13, a portion of the water within said reservoir will pass through the pipe 16 into the steam-generating receptacle 10 within the boiler 1. The steam-generating receptacle 10 being in approximately the same plane as is the water-reservoir 12, the water within said steam-generating receptacle 10 will rise to a point as high as is the water within the water-reservoir 12. As the water within the steam-generating receptacle becomes heated by the fire within the fire-box of the boiler 1, steam will be generated within said receptacle 10, and, as it increases in volume, will open the automatic valve 24. If it is desired to cook the food placed in the receptacles 30, the valve 26 must be closed and the valve 35 opened. The steam thus generated will pass through the automatic cut-off valve 24, through the pipes 34 and 37, through the flexible pipe 38, into the distributing-pipe 31. From here it is discharged through the nozzles 32, that are located within the receptacles 30, thus steaming and cooking the food, as desired.

Should it be desired to cook or steam a quantity of food in a single receptacle, such as 42, the lower end of the hose or flexible tube 29 is positioned within said receptacle 42, the valve 28 in the pipe 27 opened, the valve 26 in the pipe 25 opened, the valve 35 in the pipe 34 closed, and the valve 22 in the pipe 19 closed. This being done, the steam will pass through the automatic cut-off valve 24, through the pipe 25 into the steam-reservoir 18, from thence through the pipe 27 and flexible pipe 29 into the receptacle 42, in which the food to be cooked or steamed is deposited.

If it is desired to cook food placed in the receptacles 30 and also food in the receptacle 42, the valves 35, 26, and 28 are opened and the valve 22 closed. Thus steam will be passed through the various pipes and connections into the receptacles 30 and the receptacle 42. By the manipulation of the cut-off valves 33 in the nozzles 32 steam can be passed through any one or all of said nozzles 32. If desired, the upper end of the flexible tube 38 can be disconnected from the end of the pipe 37, and the upper end of the flexible tube or hose 29 positioned upon the end of said pipe 37. By now closing the valve 26 the steam

will be passed through the pipe 34, pipe 37, and flexible tube or hose 29 into the receptacle 42.

When the valves 35 and 28 are closed, any steam that may be generated or in the steam-reservoir 18 will pass through the pipe 19, the valve 22 having previously been opened, through the pipe 21 and into the water-reservoir 12, there to condense. Should at any time it be found advisable to wash out or cleanse the steam-generating receptacle and various connections, the valve 26 and the faucet 15 are opened. A supply of water now being introduced through the pipe 27 into the steam-reservoir 18 will pass from said reservoir through the pipe 25, through the automatic cut-off valve 24, previously opened, through the pipe 23 and steam-generating receptacle 10, through the pipe 17 into the water-reservoir 12 and out through the faucet 15, thereby thoroughly cleansing said receptacles and connections.

The annular flange 11 on the steam-generating receptacle 10 tends to retain the heat and flame emanating from the fire in the fire-box of the boiler 1 and more thoroughly heat the water within said steam-generating receptacle 10.

By grasping the handles 40 and raising the standards 41 free from the ground the entire cooker can be easily and quickly moved from one point to another.

Thus will be seen how I have constructed a steam-cooker that is simple and inexpensive in construction, easily operated, and capable of being moved from one point to another to facilitate the cooking of the various kinds of food.

What I claim is—

The combination, with a steam-generator and its supports, of a main steam-discharge pipe 23, the automatic valve 24 connected to said pipe, a smaller steam-discharge pipe 25 connected directly to said valve, a valve 26 applied to said smaller pipe, connections with the latter for conducting steam therefrom to a cooking utensil as 42, an additional steam-discharge pipe 34 also connected directly to the said automatic valve, a valve 35 applied to the pipe last mentioned, and connections for conveying steam from said last-mentioned pipe to an additional cooking utensil or a series of utensils, substantially as and for the purposes specified.

In testimony whereof I affix my signature in presence of two witnesses.

ALVA N. ROOKS.

Witnesses:

E. E. LONGAN,
JNO. C. HIGDON.