No. 682,292. Patented Sept. 10, 1901.

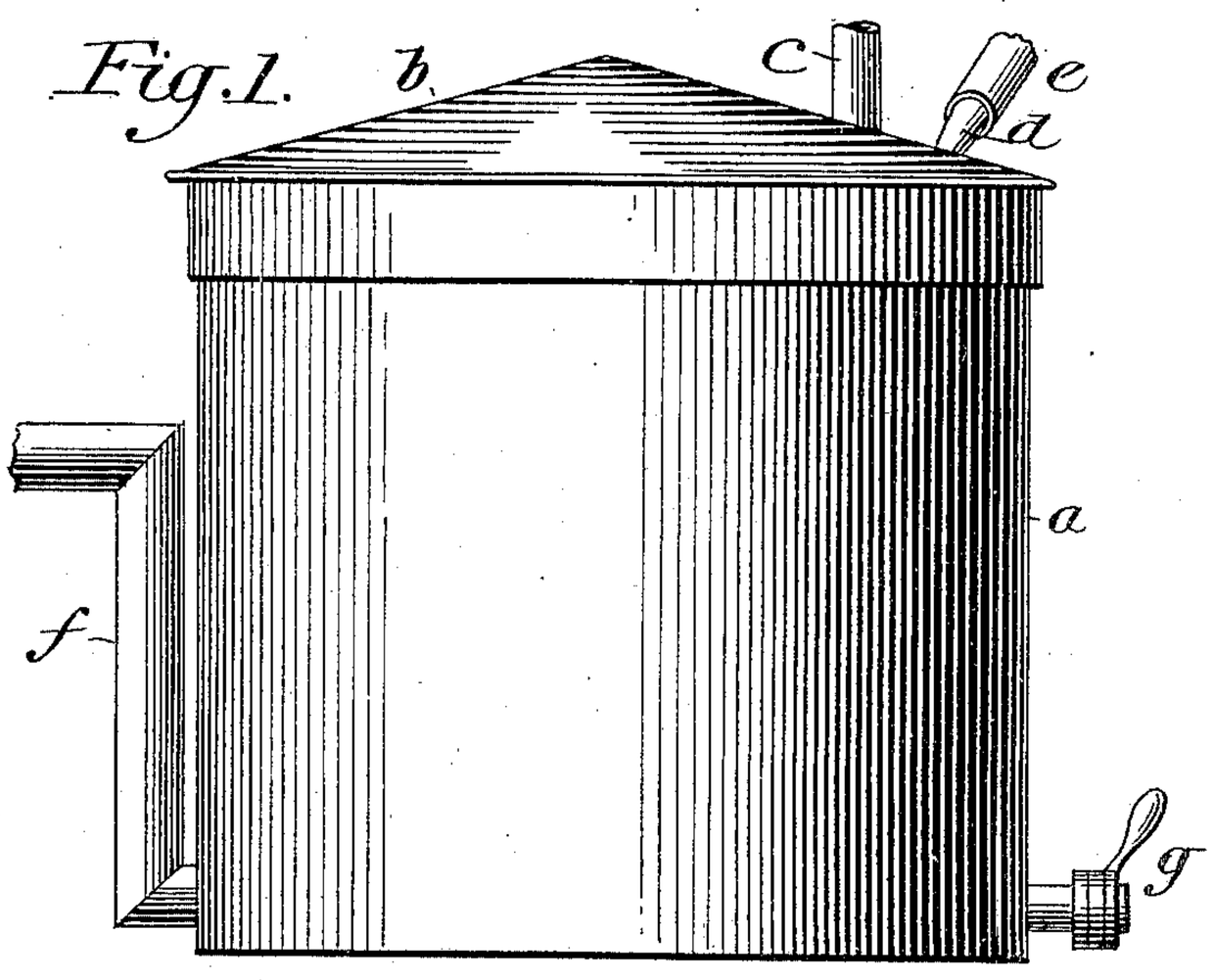
W. SUKALLE.

LARD COOLING AND MIXING MACHINE.

(Application filed Apr. 9, 1901.)

(No Model.) 2 Sheets—Sheet 1.

Fig. 1.



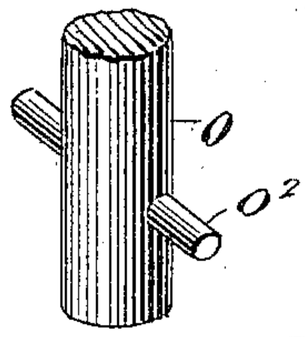


Fig. 8.

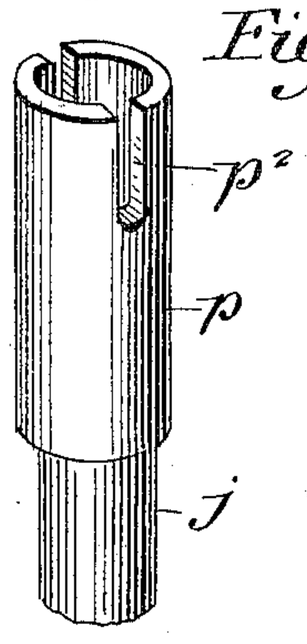
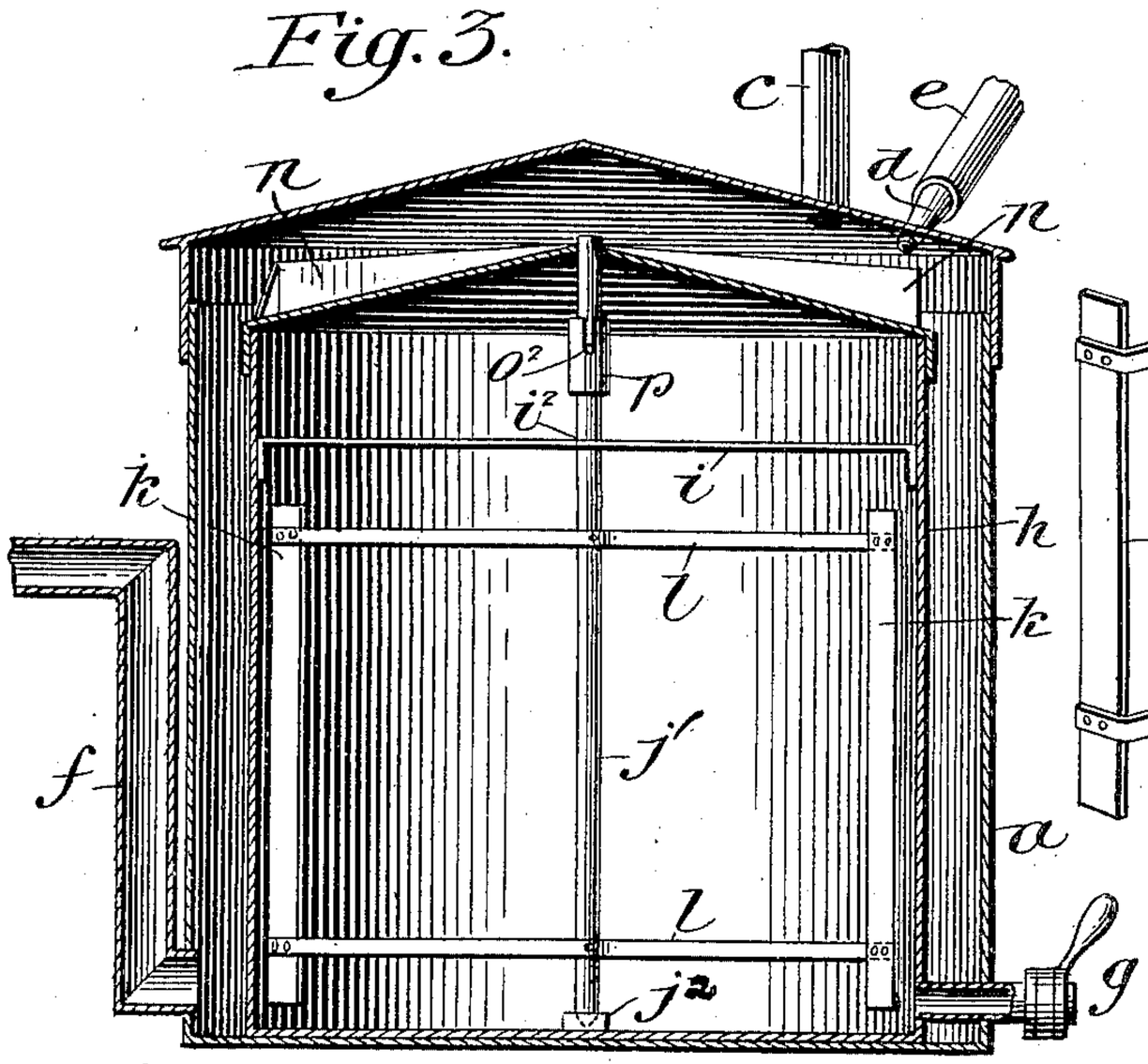


Fig. 3.



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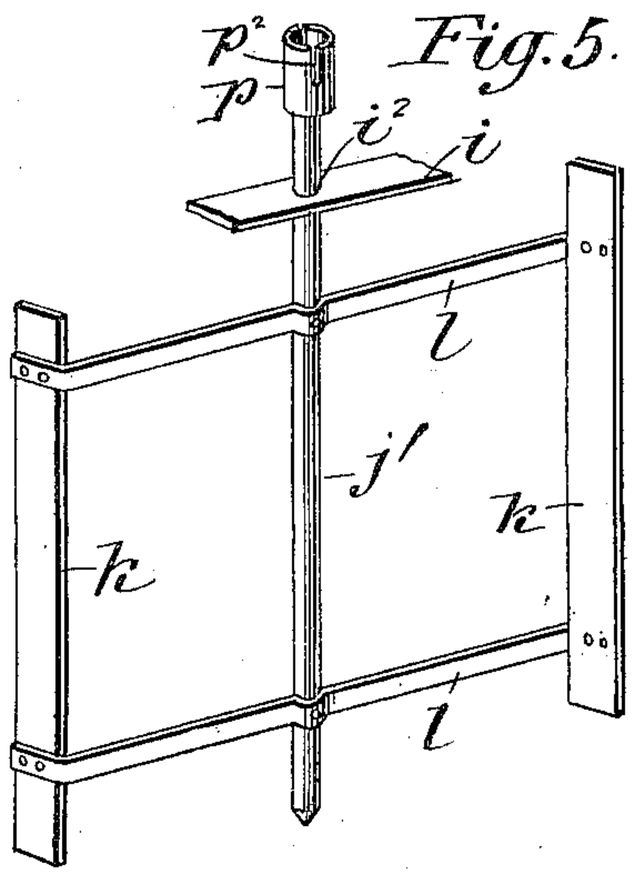

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(No Model.) 2 Sheets—Sheet 2.

Fig. 2.

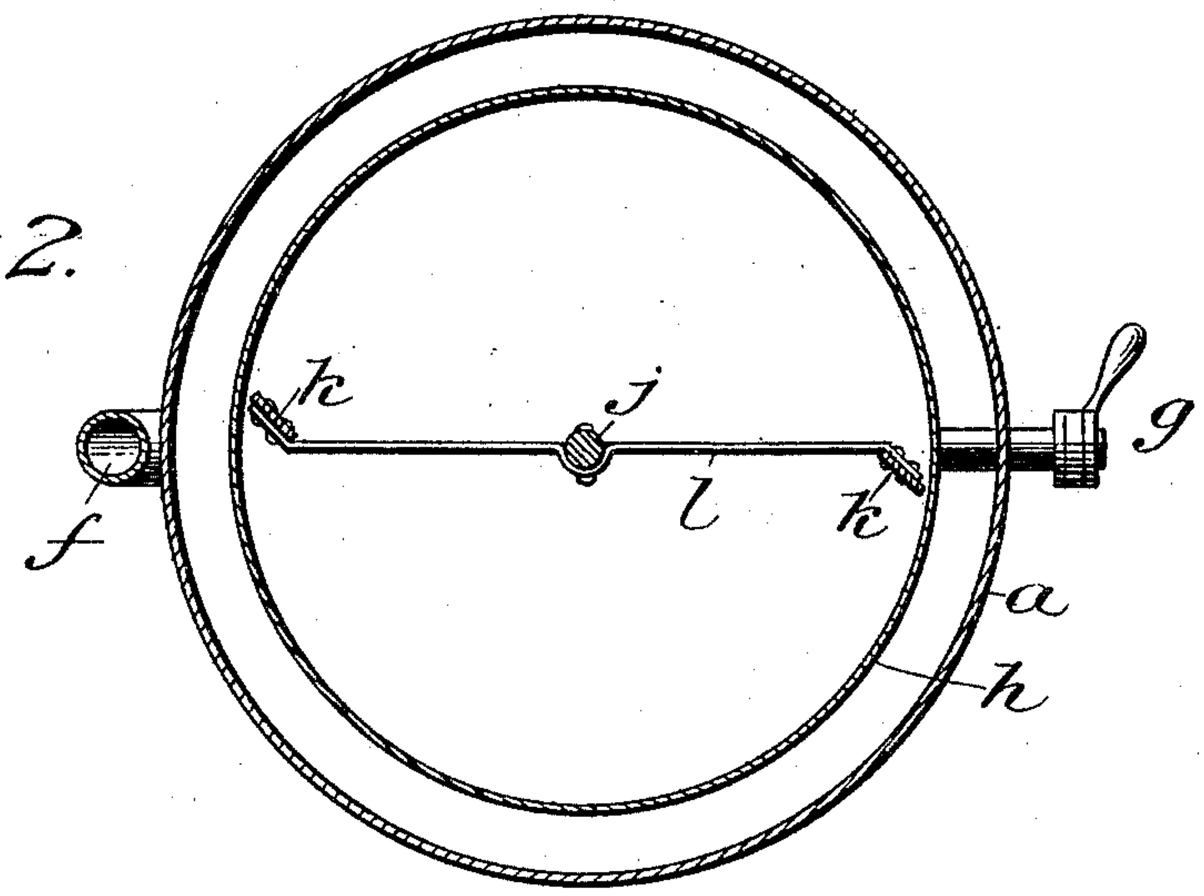


Fig. 7.

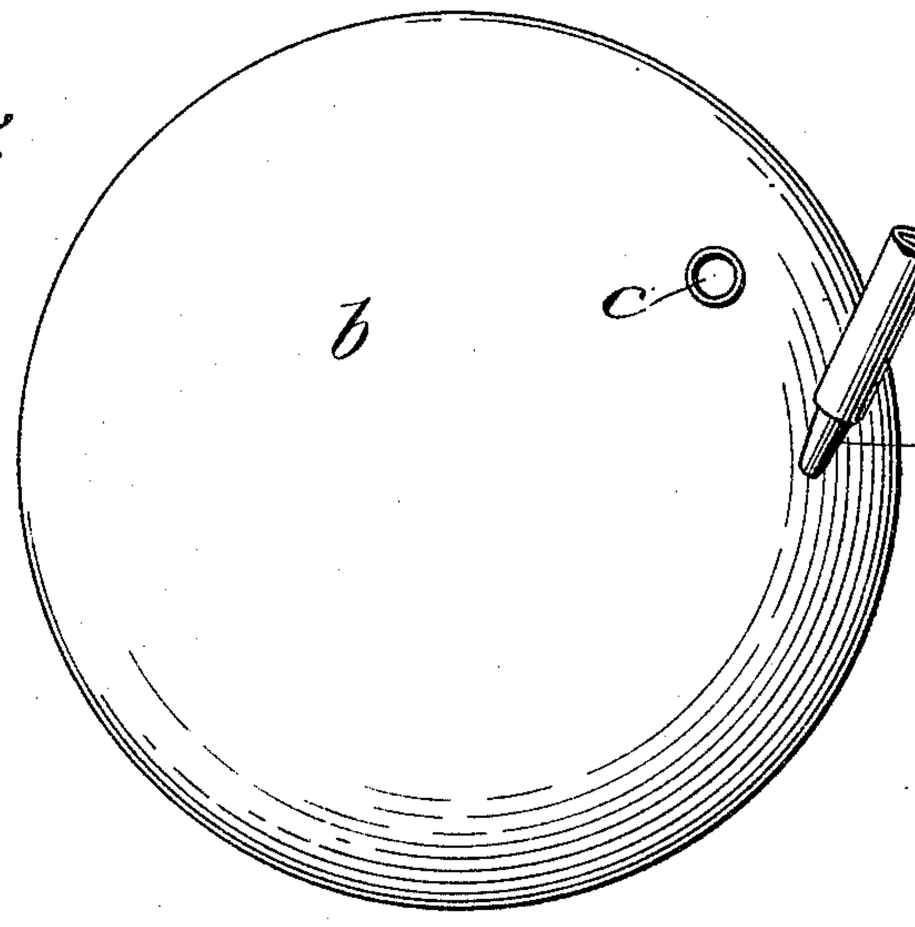


Fig. 4.

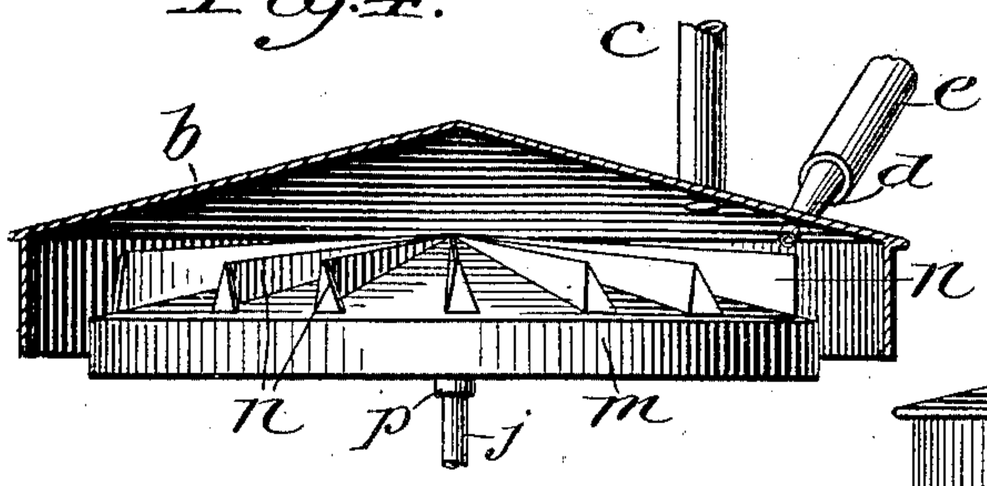
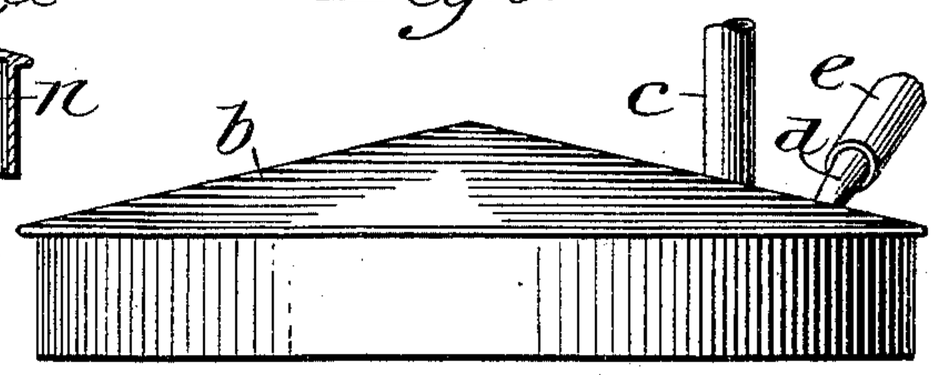


Fig. 6.



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UNITED STATES PATENT OFFICE.

WILLIAM SUKALLE, OF SANTA ROSA, CALIFORNIA.

LARD COOLING AND MIXING MACHINE.

SPECIFICATION forming part of Letters Patent No. 682,292, dated September 10, 1901.

Application filed April 9, 1901. Serial No. 55,097. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM SUKALLE, a citizen of the United States, residing at Santa Rosa, in the county of Sonoma, State of California, have invented a new and useful Improvement in Lard Cooling and Mixing Machines, of which the following is a specification.

My invention relates to improvements in lard cooling and mixing machines in which the vertical beaters or paddles are placed in such an angle that the operation of the same throws the lard from the sides toward the center and thoroughly mixes it. The movement of the beaters or paddles is communicated to them by means of the central driving-rod, which is connected by means of a special device with the conical disk or lid, upon which are constructed buckets of such a shape that they receive a stream of water on their concave sides, and these revolving give to the beaters or paddles a very rapid rotary motion. The water after being used to operate the buckets flows on down the sides of the inner vessel and finds its exit at the outlet for same, as shown.

Figure 1 is an external view of the lard cooling and mixing machine when ready for operation. Fig. 2 is a transverse section of same looking down. Fig. 3 is a vertical section of same. Fig. 4 is a sectional view of the outer conical lid, showing the inner disk or lid upon which are fastened the buckets. The revolutions of said disk or lid communicated to the central driving-rod produces the rapid revolutions of the beaters or paddles. Fig. 5 is the vertical central driving-rod, showing the beaters or paddles attached thereto. Fig. 6 is an outside view of the outer cover or lid, showing the inlet for the water and the vent-pipe. Fig. 7 is a top view of Fig. 6. Fig. 8 shows the method used for connecting the central or driving rod.

Similar letters refer to similar parts throughout the several views.

a is the outer case or tank to cooler; *b*, the lid to same.

c is the vent for hot air.

d is the inlet through which water is thrown upon the buckets *n*, conveyed to same through hose *e*.

f is the outlet for waste water.

g is the outlet for lard from inner tank or case *h*.

h is the inner case or tank.

i is the metal strip or plate supporting and maintaining in position the vertical central driving-rod *j*.

i^2 is the hole in plate *i*, through which the central driving-rod *j* passes.

j' is the lower part of the vertical central driving-rod, carrying the arms *l* and beaters or paddles *k* and resting and revolving in a central point j^2.

m is the inner disk or lid, having the buckets *n* attached thereto.

n represents the buckets, the action of the water upon which causes the disk or lid *m* to revolve and communicate the motion by means of rods *o* and *j* to beaters or paddles *k*.

o^2 is the pin through rod *o*, which, resting in slots or grooves p^2, communicate the motion to rod *j* and arms *l* to beaters or paddles *k*.

p is the socket into which rod *o* slips, having slots or grooves p^2, as aforesaid.

I am aware that other lard cooling and mixing machines have been made and are in use. I therefore do not claim such a combination, broadly; but

What I do claim as my invention, and desire to secure by Letters Patent, is—

The combination in a lard cooling and mixing machine, of the inner tank *h*, a rotatable lid therefor, buckets *n* attached to said lid, a beater adapted to be connected with said lid, a nozzle adapted to direct a jet of water against the buckets to rotate the lid and beater, an outer case to receive the discharge from the buckets, and a lid for said outer case in which water-supply nozzle is placed, all substantially as set forth.

WM. SUKALLE.

Witnesses:
F. J. BUTTS,
JEANNIE BUTTS.