

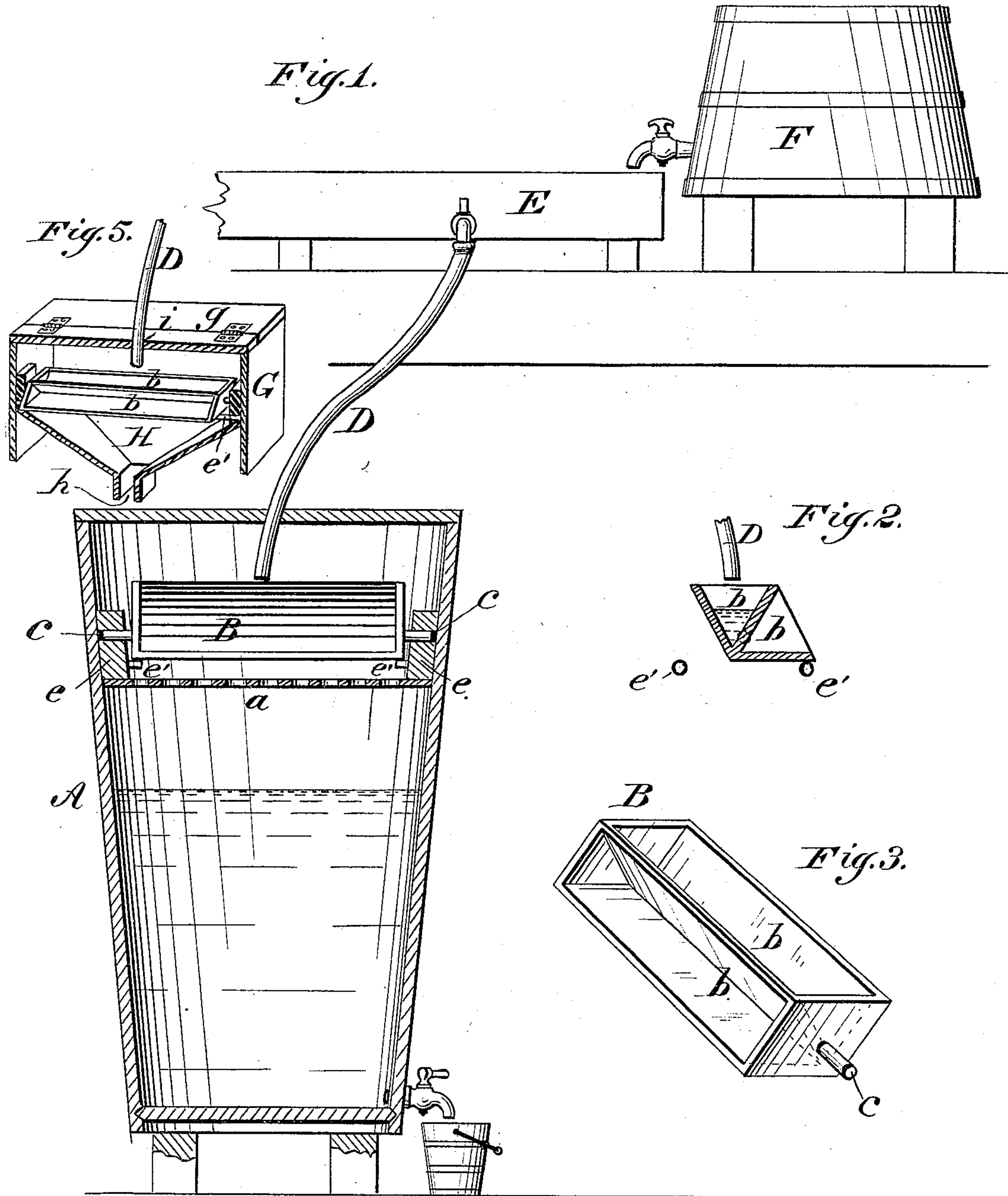
(No Model.)

O. F. OETERS & F. W. STUTE.

VINEGAR GENERATOR.

No. 249,661.

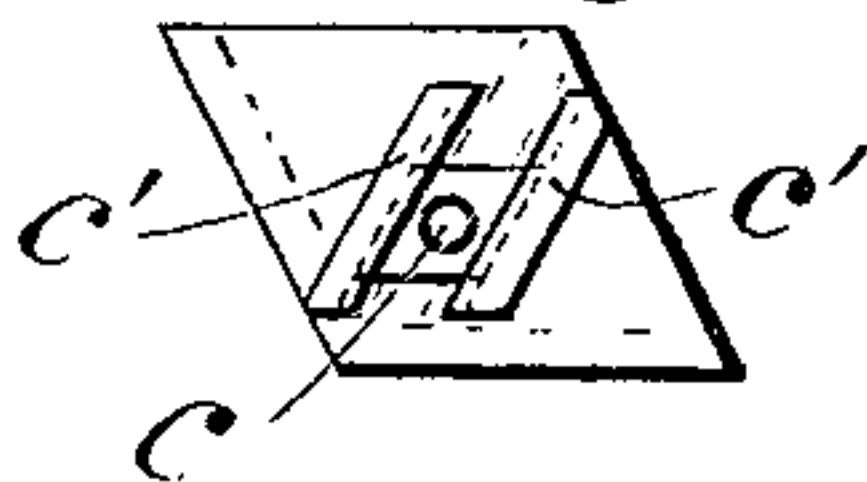
Patented Nov. 15, 1881.



WITNESSES:

Donn P. Twitchell.  
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Fig. 4.



INVENTOR:

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# UNITED STATES PATENT OFFICE.

OTTO F. OETERS AND FREDERICH W. STUTE, OF ST. LOUIS, MISSOURI.

## VINEGAR-GENERATOR.

SPECIFICATION forming part of Letters Patent No. 249,661, dated November 15, 1881.

Application filed March 30, 1881. (No model.)

*To all whom it may concern:*

Be it known that we, OTTO F. OETERS and FREDERICH W. STUTE, of St. Louis, Missouri, have invented a new and Improved Generator for Manufacturing Vinegar, of which the following is a specification.

In the manufacture of vinegar it is necessary to supply the generator at regular intervals with regular quantities of the wash or material undergoing fermentation.

Our invention consists of means by which this is accomplished automatically.

In the accompanying drawings, Figure 1 is a view of the generator and supply tanks. Fig. 2 is a perspective view of the pivoted supply-box or "tipper." Fig. 3 is a transverse section of the same. Fig. 4 is an end view of the box or tipper, showing the movable pivot; and Fig. 5 is a perspective view, in section, of a modification of our invention.

Similar letters of reference indicate corresponding parts.

A represents the generator, which may or may not have the perforated diaphragm *a*; and B represents the tipper, which is constructed to form the V-shaped troughs *b b*, and is provided with the pivots *c c*, which may be fixed or immovable, as shown in Fig. 3, or movable in the ways *c' c'*, as shown in Fig. 4. The tipper B is to be pivoted in the blocks *e e*, secured to the inside of the generator, and immediately beneath the supply-pipe D, which leads from the elevated pan or box E, where the supply is regulated from the tank F. The blocks are provided with the pins *e' e'*, for supporting the edges of the box or tipper as it tips from side to side to discharge the wash or vinegar material.

In use the pivots *c* are first adjusted so that the troughs will retain, before tipping, the quantity desired to be poured into the generator at a time. The flow is then regulated to supply

that quantity within the interval desired to have elapse between each pouring. By this means the required quantity at the exact time is poured into the generator, thus obviating the necessity of constant attention. The quantity to be poured at a time may be regulated as desired by adjusting the pivots.

Instead of pivoting the tipper to blocks secured inside the generator, the same may be pivoted in the separate box G, as shown in Fig. 5, which box is adapted to be placed upon the top of the generator, thus avoiding the necessity of any change or addition to the generator. The box G is preferably rectangular in form, and provided with the cover *g* and the opening *i* in the stationary part for the supply-pipe D, and it is also provided with the hopper-shaped bottom H, having the opening *h*, which directs the wash or vinegar material from the tipper into the generator.

Having thus fully described our invention, we claim as new and desire to secure by Letters Patent—

1. The combination, with the generator and the bearing-blocks *e*, having the pins *e'*, of the tipper B, journaled in said blocks and supported on said pins, whereby one of the troughs will always be held in a vertical position under the pipe D, as shown and described.

2. The box or tipper B, formed with the troughs *b b*, and having the adjustable pivots *c c*, substantially as and for the purposes specified.

3. The box G, formed with the hopper-shaped bottom H, in combination with the tipper B, substantially as and for the purposes specified.

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Witnesses:

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