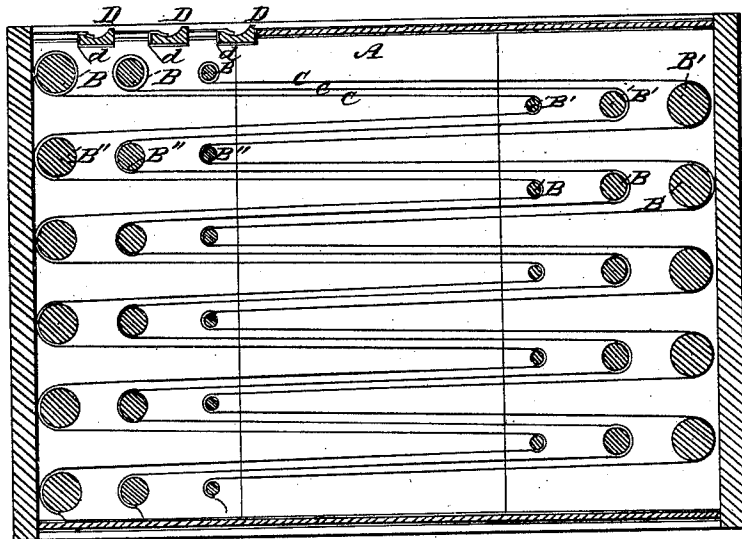


*P. Plodetz.*  
*Making Vinegar.*

*N<sup>o</sup> 108,291.*

*Patented Oct. 11, 1870.*

*Fig. 1.*



*Witnesses.*

*Geo. W. Tibbitts*  
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*Paul Plodetz,*

# United States Patent Office.

PAUL PLODECK, OF CLEVELAND, OHIO.

Letters Patent No. 108,291, dated October 11, 1870.

## IMPROVEMENT IN THE MANUFACTURE OF VINEGAR.

The Schedule referred to in these Letters Patent and making part of the same

I, PAUL PLODECK, of Cleveland, in the county of Cuyahoga and State of Ohio, have invented a new and improved Mode of or Apparatus for Making Vinegar, of which the following is a specification.

The nature of this invention relates to a method of exposing the liquid to the greatest extent by means of canvas, or other suitable fabric, stretched in such a manner that the liquid may saturate it and flow along the same to a very great length, thus exposing the liquid to the atmosphere in a manner to cause rapid acidulation.

In the accompanying drawing—

Figure 1 is a longitudinal section of my apparatus.

A is a box, made of wood; the dimensions may be as convenience may dictate, as it is intended to be built or placed in a room. For example, the box should be twelve feet in length, six feet wide, and six to ten feet high.

Across the box are placed a series of round sticks, B B B, near the ends. The ones nearest the ends are larger than those next, and so on toward the center of the box.

C C C are long sheets of canvas, woven coarsely, or sufficiently open to allow it to be easily saturated, and to admit of circulation of air.

The ends of the sheets are secured to the top row of rounds B B B, and are passed around those at the other end of the box, at B' B' B', thence back to

B" B" B", and so back and forth to the bottom of the box, the rounds being so arranged that the sheets shall not touch one another, and shall have sufficient slant to cause the liquid to flow slowly along from one end to the other; the lower ends of the canvas hanging over the last rounds a short distance, to allow the liquid to drip. The canvas should be stretched pretty tight.

Over the upper ends of the canvas are placed troughs D D D, in which the mash is to be placed, and having one edge a little lower than the other, and provided with a piece of canvas, *d d d*, to lead the drip of the mash to the sheets C C C.

By this method, the liquid is conveyed along the canvas by capillary attraction, and is thus completely exposed to the atmosphere, which, when kept at the proper temperature, will cause rapid acidulation, producing vinegar in a short time, and in good quality.

I claim as my invention—

The combination and arrangement of the canvas sheets C C C, rounds B B B, and troughs D D D, in a suitable box A, substantially in the manner described, and for the purpose set forth.

PAUL PLODECK.

Witnesses:

GEO. W. TIBBITTS,  
GEO. A. KOLBE.