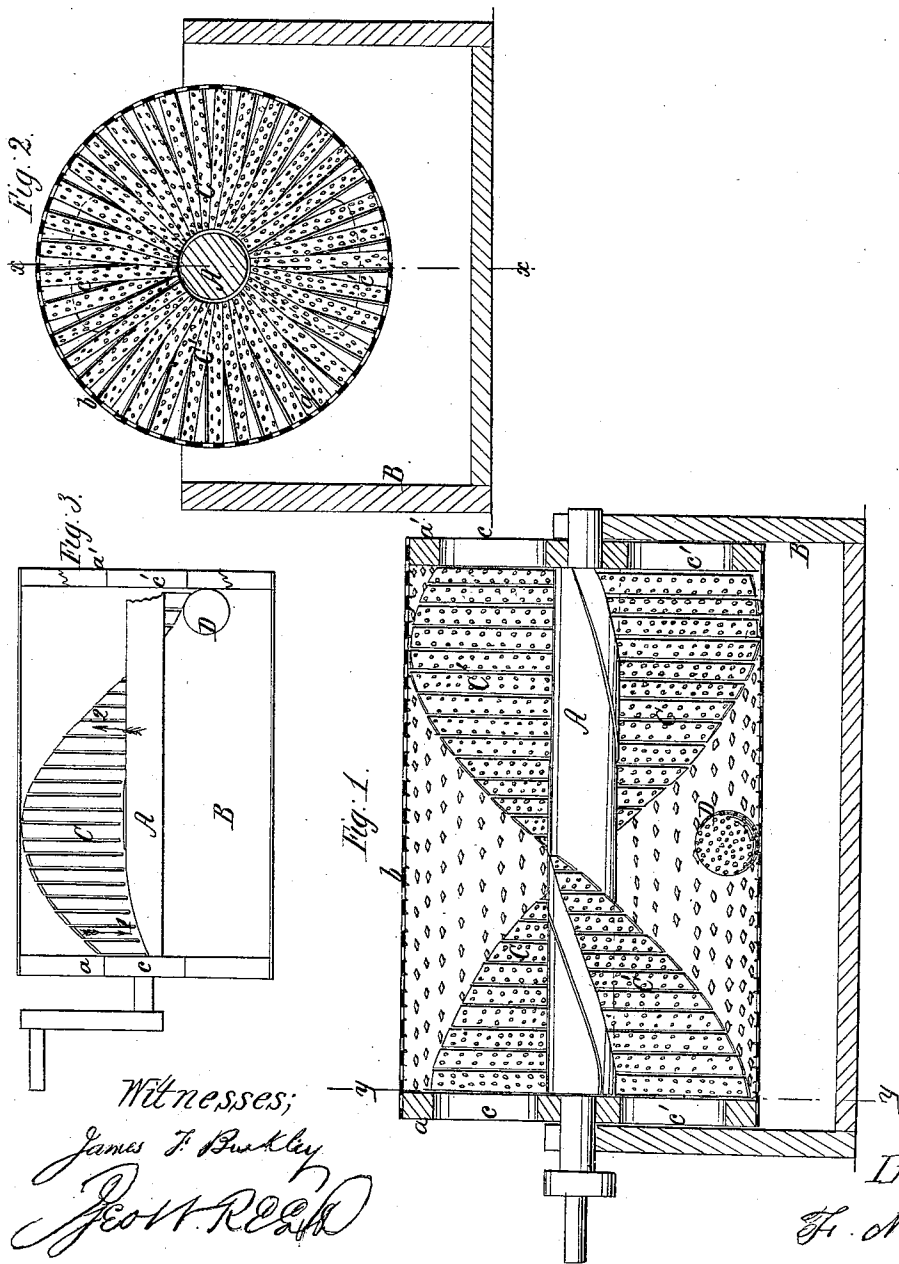


*F. Nishwitz,*  
*Vegetable Cleaner.*

*N<sup>o</sup> 42,868.*

*Patented May 4, 1864.*



Witnesses;

*James T. Buckley*  
*Geo. V. Reed*

Inventor;  
*F. Nishwitz*

# UNITED STATES PATENT OFFICE.

FREDERICK NISHWITZ, OF BROOKLYN, NEW YORK.

## IMPROVED MACHINE FOR WASHING AND SCOURING VEGETABLES.

Specification forming part of Letters Patent No. 42,868, dated May 24, 1864.

*To all whom it may concern:*

Be it known that I, FREDERICK NISHWITZ, of Brooklyn, in the county of Kings and State of New York, have invented a new and Improved Device for Washing and Scouring Vegetables; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a longitudinal vertical section of my invention, *x x*, Fig. 2, indicating the line of section; Fig. 2, a transverse vertical section of the same, taken in the line *y y*, Fig. 1; Fig. 3, a diagram of the same, designed to show more clearly its operation.

Similar letters of reference indicate corresponding parts in the several figures.

This invention consists in placing within a rotating vegetable-receptacle one or more spiral partitions, the ends of the vegetable-receptacle having openings made in them, which are so placed relatively with the spiral partitions that when the receptacle is rotated in one direction the vegetables will be retained in it, and be thoroughly washed and scoured or cleaned, and when said receptacle is turned in the opposite direction the vegetables will be discharged.

The vegetable-receptacle is placed within a box containing water, and it has a perforated periphery, or one formed of slats, to admit of the water passing into it, and the inner surface of the periphery may be corrugated or roughened in any proper way to form a scouring-surface. The spiral partitions may also be corrugated or roughened in a similar manner, and a ball or sphere may also be used within the receptacle to aid in the scouring and cleaning process.

To enable those skilled in the art to fully understand and construct my invention, I will proceed to describe it.

A represents a shaft, which has two circular heads or disks, *a a'*, secured upon it, one near each end, and *b* is a perforated cylindrical sheet-metal case which is secured to said heads or disks, the whole forming a cylindrical receptacle to receive the vegetables to be washed. The shaft A has its bearings on the upper part of a box, B, which contains water, in which the lower part of the receptacle is submerged, and within said receptacle

there are placed two spiral partitions, C C' both having the same "pitch," and extending the whole length of the receptacle. The heads *a a'* have each two holes or openings, *c c'*, made in them at opposite points relatively with the shaft A, as shown in Fig. 1, and these openings are so placed relatively with the partitions C C' that the ends of each one of the latter have an opposite position with the openings *c c'*, (see Fig. 3,) in which the end of one partition, C, is at one side of an opening, *c*, in one head, and the other end at the opposite side of the opening *c'* in the other head, *a'*. The partitions C C' extend half-way around the shaft A, and it will be seen from the above description that if the receptacle is rotated in the direction indicated by arrow 2 in Fig. 3 that the vegetables in the receptacle will not be discharged from the latter as the spiral partitions will have a tendency to move the vegetables toward the head *a'*, where the ends of the partitions C C' do not have such a position relatively with the openings *c c'* therein as to admit of their discharge. If the receptacle, however, be turned in the opposite direction, as indicated by arrow 1, the vegetables will be discharged through the openings of the head *a'*. The vegetables are put into the receptacle through the openings in the head *a*, and the box B being properly supplied with water, the receptacle is rotated in the direction of arrow 2 until the vegetables are perfectly cleansed, when the receptacle is turned in the opposite direction, (indicated by arrow 1,) and the vegetables discharged through the openings in the head *a'*. By having the case *b* corrugated or roughened at its inner side, and the spiral partitions C C' also corrugated or roughened, the vegetables may not only be cleared or washed, but also pared or peeled at the same time, and in order to expedite the cleaning and scouring process one or more balls, D, may be used, having its exterior corrugated or roughened. (See Fig. 1.)

This invention is more especially designed for operation on a large scale in preparing vegetables—for instance, for the desiccating process. It is now in practical operation, and performs its work in an admirable manner.

I would remark that instead of the perforated case *b* slats or bars may be used, the inner surfaces of the same being corrugated. The spiral partition C C' may also be formed

of a series of bars corrugated in the same way.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A rotating vegetable-receptacle provided with one or more spiral partitions, C C', arranged relatively with openings *c c'* in the heads *a a'* of the receptacle, to operate substantially in the manner as and for the purpose herein set forth.

2. Having the inner surface of the case or periphery of the vegetable-receptacle corru-

gated or roughened, either with or without a corrugated or roughened surface on the spiral partition plates C C', for the purpose specified.

3. In combination with a rotating vegetable receptacle the employment or use of one or more balls or spheres having a corrugated or roughened exterior, to operate as and for the purpose set forth.

F. NISHWITZ.

Witnesses:

M. M. LIVINGSTON,  
GEO. W. REED.