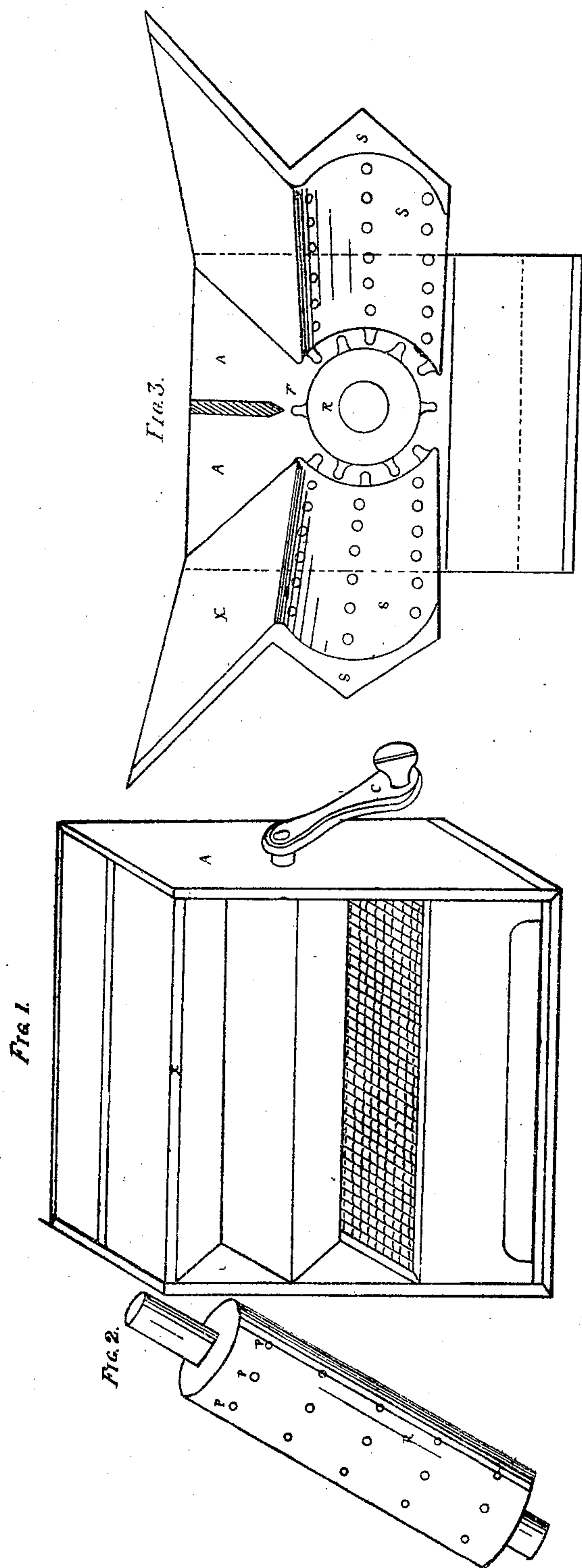


W. H. Bridgens

Pea Sheller.

N<sup>o</sup> 71273

Patented Nov. 26, 1867.



Witnesses:

E. R. Hopkins  
John B. Bays

Inventor

W. H. Bridgens

# United States Patent Office.

WILLIAM H. BRIDGENS, OF NEW YORK, N. Y.

*Letters Patent No. 71,273, dated November 26, 1867.*

## IMPROVED PEA-SHELLER.

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

### TO ALL WHOM IT MAY CONCERN:

Be it known that I, W. H. BRIDGENS, of the city, county, and State of New York, have invented a new and useful Device for Shelling Peas; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, as forming a part of this specification.

The invention which is the subject of this application consists of a box or frame, A, roller R, crank C, and portions S S of a hollow cylinder. In accompanying plate of drawings my invention is illustrated.

Figure 1 is a perspective of the device.

Figure 2 is a perspective of the roller, showing arrangement of its pins.

Figure 3 is an inside view of the device, showing arrangement of pins on the roller and the hollow cylinder.

The roller R is cylindrical in form, and revolves in the box or frame A, its ends being reduced in size for that purpose, and a crank attached to one end, which projects through the box or frame. The roller is provided with pins P P P, which are arranged in rows parallel with the axis of the roller, and those of each row are at distances apart a little greater than the diameter of the largest pea. The roller works in the hollow cylinder S S, whose axis is coincident with its axis. The hollow cylinder is permanently secured to the frame or box A. Its portions immediately above and below the roller R are removed, for purposes which will be explained. From the inner surface of the hollow cylinder, pins project inward and radially, arranged in rows, and those of each row as explained for those of the roller. The size of the roller R is so regulated with reference to the size of the hollow cylinder that the space between the outer surface of the roller and the inner surface of the hollow cylinder shall be sufficient to admit freely the largest pods from which peas are to be shelled. The pins projecting from the roller are in length so as to touch or nearly touch the inner surface of the hollow cylinder, and the pins of the hollow cylinder touch or nearly touch the surface of the roller. Immediately above and beneath the roller, the portions of the hollow cylinder are removed, the former to give place for a hopper or receptacle for the peas to be shelled, which is formed by the ends of the box or frame and pieces X X, which incline outward from the lines which limit the portions of the hollow cylinder removed above the roller. Below the roller a portion of the hollow cylinder is removed to allow a passage-way for the peas and pods. Beneath this opening a sieve is provided, to catch and retain the pods, and to let the peas pass through, thereby separating the two.

From the description given, it must be evident that if peas be placed in the hopper and the crank be turned in either direction, the pods will be caught by the pins of the roller and drawn into the space between the roller and cylinder, and when arrested by the pins projecting from the surface of the cylinder, the peas will be forced out of the pods and separated therefrom, as already explained.

It will be observed that the peas are forced from the pods by being compressed between two or more series of pins—one on the roller and one on the hollow cylinder.

I have constructed and employed, in shelling peas, a machine in which the roller herein described was replaced by a circular disk, from the plane sides of which pins projected outward and parallel with its axis, and from the ends of the box corresponding pins projected inward to or nearly to the plane surface of the disk, and parallel with those of the latter. The pins thus project from the plane surface of the roller or disk and the box, instead of from the cylindrical surfaces, as is the case with the device herewith submitted.

I claim as new, and desire to secure by Letters Patent as follows, viz:

A combination of the box or frame A, roller R, portions S S of a hollow cylinder, and pins P P, with or without a sieve, B, substantially as herein set forth.

WM. H. BRIDGENS.

Witnesses:

E. R. HOPKINS,

JOHN BUYS.