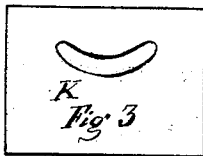
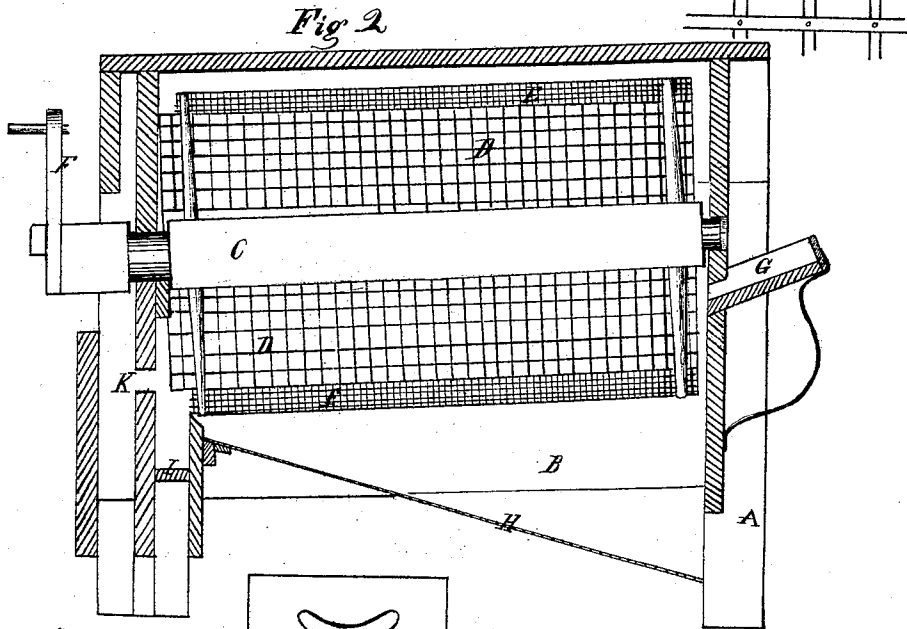
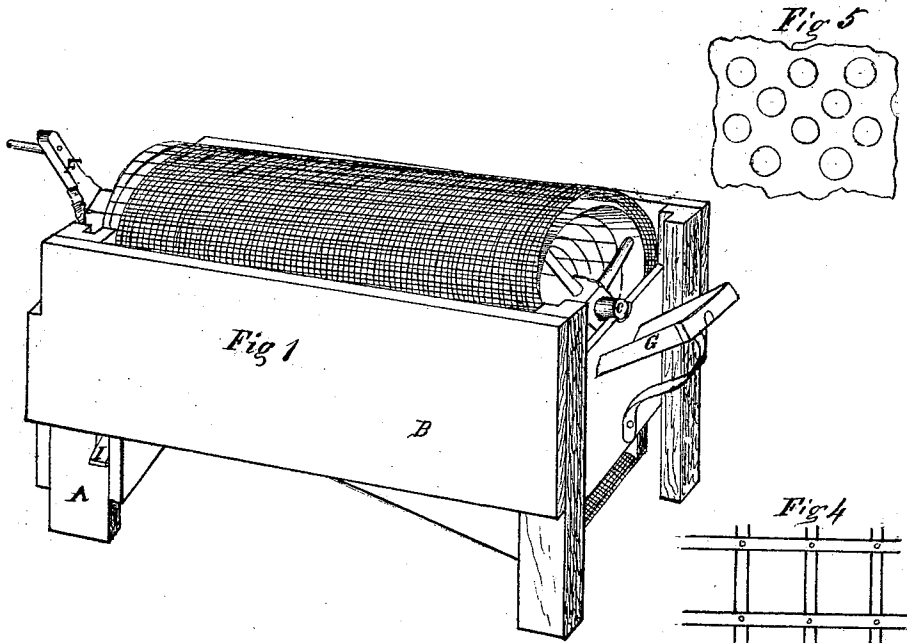


*R. Haviland,
 Potato Separator.*

No. 101,731.

Patented Apr. 12, 1870.



*Witnesses.
 Wm. H. Seaman
 Henry N. Hygatt*

*Inventor
 Richard Haviland
 per Daniel Breed Atty*

United States Patent Office.

RICHARD HAVILAND, OF NORTH BRANCH, MARYLAND, ASSIGNOR TO HIMSELF AND CHARLES WARE, OF SAME PLACE.

Letters Patent No. 101,731, dated April 12, 1870.

IMPROVEMENT IN POTATO-SEPARATORS.

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, RICHARD HAVILAND, of North Branch, in the county of Baltimore and State of Maryland, have invented a new and useful Improvement in Potato-Separators; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings and to the letters of reference marked thereon.

In the accompanying drawings—

Figure 1 is a perspective view of my machine, the top of the box being removed to show the cylindrical screen, which is made of woven wire.

Figure 2 is a vertical section of my machine.

Figure 3 is a detached view of the spout, for discharging the largest potatoes.

Figure 4 represents the flat strips of iron or other material, which may be employed as a substitute for wire-gauze, for making the screens.

Figure 5 represents a plate of perforated metal, which also may be employed as a substitute for wire or strips.

The frame A and box B may be of any suitable form.

Upon an inclined shaft, C, are placed two cylindrical screens, D and E, made of woven wire, flat strips, or perforated sheet metal. The meshes in the inner cylinder D are larger than those in the cylinder E.

These screens are inclined, so that potatoes fed into the machine at spout G will slowly pass from right to

left, when the screens are set in rotation by means of crank F, or by any other suitable means.

By this machine the potatoes are separated into three sizes, according to the usual practice of farmers.

The smallest potatoes drop through the meshes of both of the screens D and E, and then roll toward the right hand upon the flat inclined screen H, in the lower part of the box B. The screen H separates the dirt from the smallest potatoes.

The medium-sized potatoes fall through the inner cylinder D, and are delivered by the spout I, fig. 2, at the side of the machine; and the largest potatoes pass along the inner screen D, and are delivered by the spout K, figs. 2 and 3.

It may be better, in full-sized machines, to let the shaft C bear on the end of the box.

I do not limit myself to the exact details above shown.

Having described my invention,

I claim—

1. Two cylindrical screens, one being within the other, and both rotated upon an inclined axis, substantially as set forth.

2. The above in combination with the inclined screen H, substantially as described.

RICHARD HAVILAND.

Witnesses:

DANIEL BREED,
JAS. N. BURNHAM.