

D. T. STANIFORD.
Cranberry-Separator.

No. 159,853.

Patented Feb. 16, 1875.

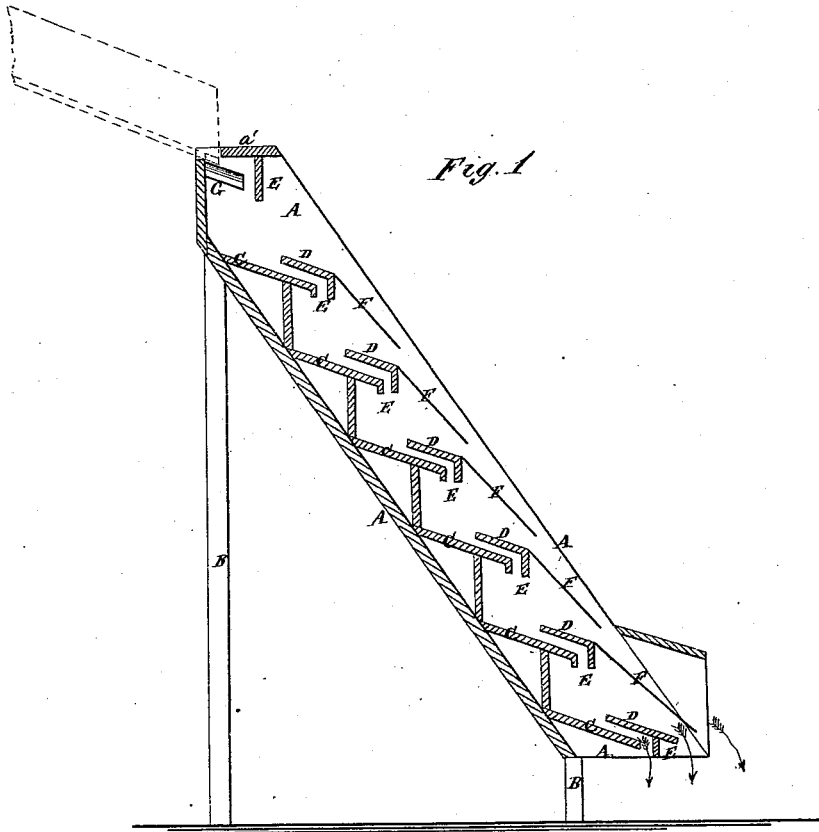


Fig. 1



Fig. 2

WITNESSES:
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UNITED STATES PATENT OFFICE.

DANIEL T. STANIFORD, OF NEW EGYPT, NEW JERSEY.

IMPROVEMENT IN CRANBERRY-SEPARATORS.

Specification forming part of Letters Patent No. **159,853**, dated February 16, 1875; application filed January 4, 1875.

To all whom it may concern:

Be it known that I, DANIEL T. STANIFORD, of New Egypt, Ocean county, New Jersey, have invented a new and Improved Cranberry-Separator, of which the following is a specification:

Figure 1 is a vertical section of my improved cranberry-separator, and Fig. 2 is a detail cross-section of the corrugated feed-plate.

Similar letters of reference indicate corresponding parts.

My invention has for its object to furnish a simple, convenient, and effective device for separating the bad cranberries from the good ones rapidly and thoroughly.

The invention consists in the series of lower inclines, the series of upper inclines, the series of stops, the corrugated feed-board, and the series of flexible aprons, in combination with each other and with the box, as herein-fully described.

A is a box or trough, placed in an inclined position, and attached to and supported by a frame-work, B. To the bottom of the box A are attached a series of inclines, C, the inclination of which is sufficient to cause the cranberries to roll down them freely. Above the outer parts of the inclines C is placed a second series of inclines, D. The inclines C D are placed at such a distance apart that the cranberries may pass between them freely. To the lower sides of the outer edges of the inclines C D are attached downwardly-projecting stop-boards E, to check the outward movement of the cranberries as they pass from each lower incline C, and cause them to drop upon the upper part of the next lower incline C. To the outer edge of each of the upper inclines D, except the lower one, is attached an apron, F, made of cloth or other suitable material. The aprons F are made of such a length as to reach to the outer edge of the next incline.

The lower edges of the aprons F may be left free; or they may be supported by cords attached to their lower corners and secured to the box A. The top *a'* of the box A has a slot in its rear part, through which the cranberries are allowed to enter from a screen. As the cranberries pass through the slot in the top *a'* of the box A they fall upon the inclined feed-board G, which is grooved or corrugated, as seen in Fig. 2, so that the cranberries may follow each other in line, instead of passing down in a bunch. The top *a'* of the box A has a stop-board, E, attached to its lower side, a little in front of the edge of the feed-board G, to cause the cranberries to drop from the feed-board G upon the first lower incline C.

As the cranberries fall upon each incline C such of the perfect berries as are unobstructed bound upon the upper inclines D, and roll down the aprons F into the receiver, and are the marketable berries. The imperfect berries do not bound, but slide, down one incline C to another, and, falling from the last incline C into a receiver, are thrown away. The berries that fall from the last upper incline D fall into a receiver, are called middlings, and are again passed through the separator.

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

The series of lower inclines C, the series of upper inclines D, the series of stops E, the corrugated feed-board G, and the series of flexible aprons F, in combination with each other and with the box A, substantially as herein shown and described.

DANIEL T. STANIFORD.

Witnesses:

JAMES T. GRAHAM,
T. B. MOSHER.