

(No Model.)

3 Sheets—Sheet 1.

J. JOHNSON.
PEANUT CLEANER.

No. 311,494.

Patented Feb. 3, 1885.

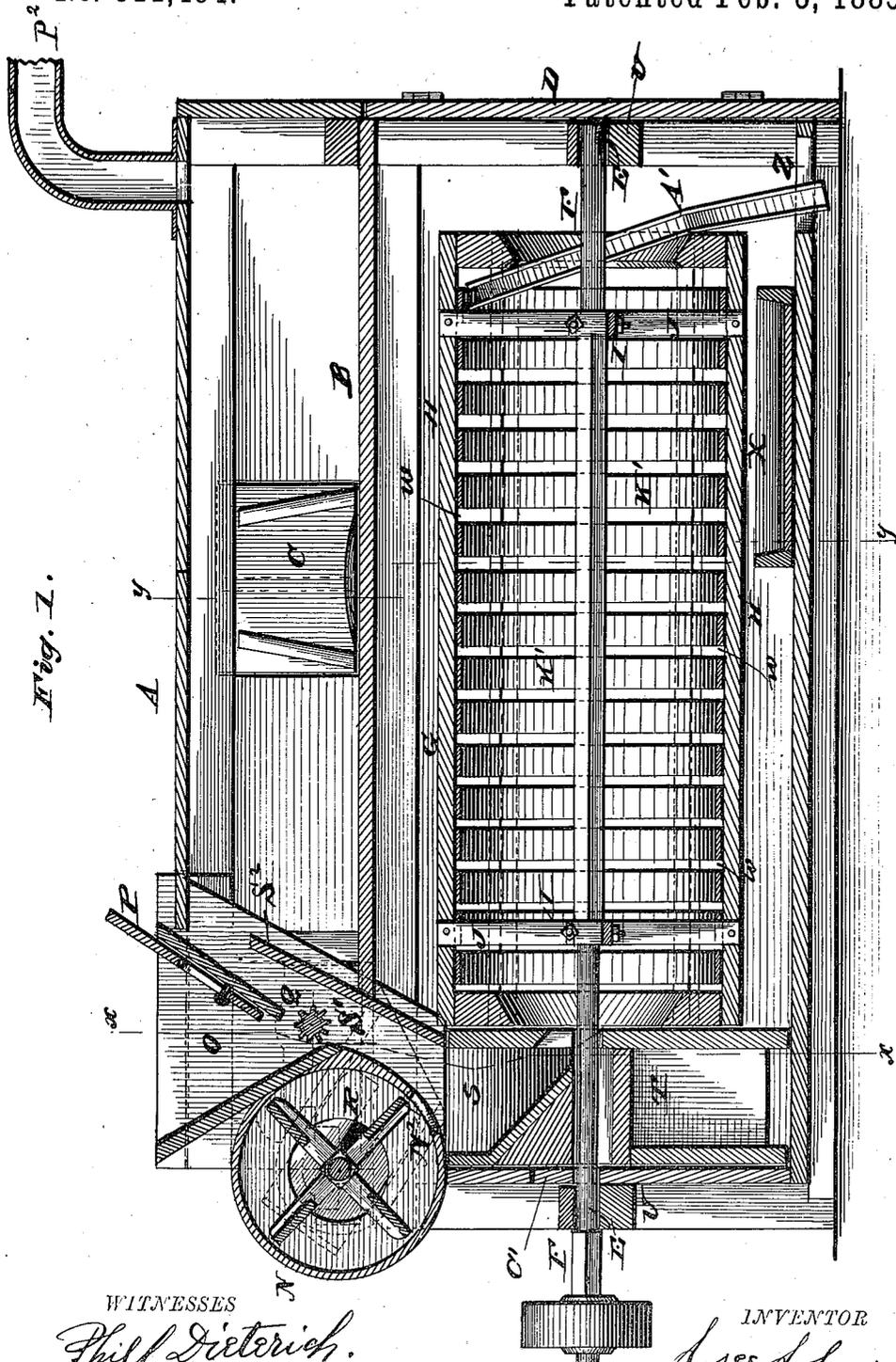


Fig. 1.

WITNESSES

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Fig. 4.

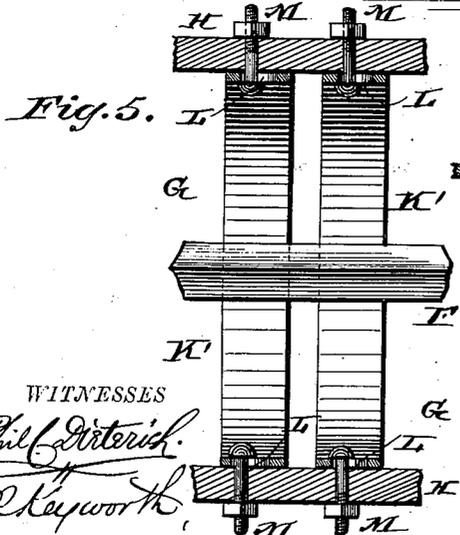
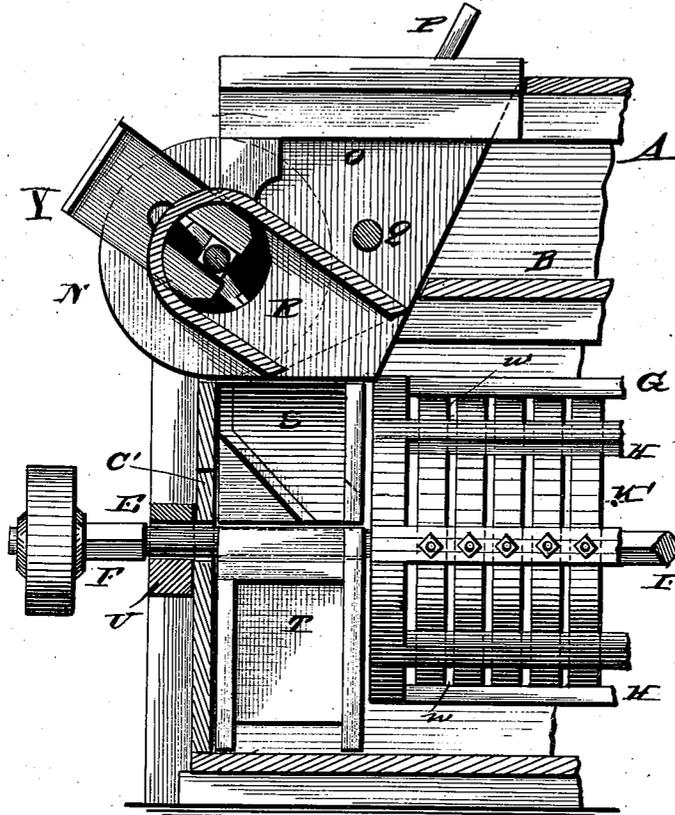
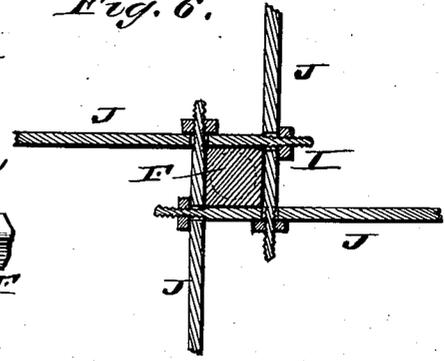


Fig. 6.



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UNITED STATES PATENT OFFICE.

JOSEE JOHNSON, OF NORFOLK, VIRGINIA, ASSIGNOR TO HIMSELF AND
HOLLOWAY P. EMBURY, OF SAME PLACE.

PEANUT-CLEANER.

SPECIFICATION forming part of Letters Patent No. 311,494, dated February 3, 1885.

Application filed April 15, 1884. (No model.)

To all whom it may concern:

Be it known that I, JOSEE JOHNSON, of Norfolk, in the county of Norfolk and State of Virginia, have invented certain new and useful
5 Improvements in Peanut-Cleaners; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form part of this specification.

This invention relates to machines for cleaning, scouring, and separating peanuts; and it consists in certain improvements in the construction of the same, having for their object
15 to produce a device which shall possess superior advantages in point of simplicity, durability, and general efficiency, and in which provision shall be made for removing the dust and chaff separated from the nuts and conveying it away from the machine.

To this end the invention consists in the improved construction and arrangement of parts, which will be hereinafter fully described, and particularly pointed out in the claims.

25 In the drawings hereto annexed, Figure 1 is a longitudinal sectional view of a machine embodying my invention. Fig. 2 is a transverse sectional view taken through the feed-hopper on the line *xx* in Fig. 1. Fig. 3 is a transverse
30 vertical section taken on the line *yy* in Fig. 1. Fig. 4 is a detail longitudinal sectional view taken through one of the side ducts of the fan-case. Fig. 5 is a detail longitudinal sectional view of a small portion of the scouring-screen,
35 showing the construction of the same; and Fig. 6 is a transverse sectional view taken through one of the spiders of the same.

The same letters refer to the same parts in all the figures.

40 In the annexed drawings, A designates a box or casing, which is constructed with a horizontal partition or floor, B, and provided with doors C D B', arranged, respectively, at one side and end of the casing. The ends of the casing are provided with bearings E for the
45 shaft F of a scouring and screening cylinder, G, which is constructed of longitudinal slats H, rigidly connected to spiders I, which latter consist of arms J, secured to the shaft F in
50 any suitable manner.

Attached to the slats H are a series of me-

tallic bands or hoops, K' K', which are made laterally adjustable by means of slots L, formed in said hoops, so as to receive the shanks of
55 attaching-bolts M, by loosening the nuts on which the hoops can be adjusted to any desired position.

At the front end of the casing A is placed a fan-case, N, which is constructed with a hopper, O, one side of it having a feed-regulating
60 valve, P. Near the discharge-opening of this hopper is located a grooved or corrugated feed-roller, Q, which serves to feed the nuts into the blast-chute S' on one side of it, from which the nuts are directed into the scouring and
65 screening cylinder through one end thereof. The fan-case has an opening, N², through its bottom, which leads into the blast-chute S', and the open ends of this fan-case communicate by means of side ducts, R, and side spaces with
70 the lower compartment of the casing. The fan-case also communicates with the upper compartment of the casing, above the cylinder G, by means of the blast-chute S', the upper extension of the board S² serving to prevent the
75 nuts from being carried over into the upper compartment by the blast. By means of the fan and the side air-ducts above described, the dust, &c., separated from the peanuts is drawn from the lower compartment and the
80 cylinder G up into the fan-case and forced out at the opening N² and through the passage S' into the upper compartment, the lighter particles being driven therefrom through a pipe, P². As the nuts fall from the hopper they
85 pass through the lower part, S, of the chute S', which directs them into the cylinder G, as above stated. This lower part, S, of the chute is detachable from the upper portion, and it is supported upon a table, T, so that it may be
90 removed from the casing, as will be hereinafter explained. The bearings of the cylinder-shaft F are formed in cross-beams U U, which are mortised into the uprights of the casing at one side thereof, and confined at the other side of
95 the casing to uprights by means of plates V and blocks W. By opening a side door, B', and removing the blocks W, the beams U U and the cylinder can be removed from the casing, together with the portion S of the blast-
100 chute. The hoops K' of the cylinder G are arranged at certain distances apart from the

front end thereof to about the point indicated by letter *w*, when they are set at somewhat greater distances apart toward the rear end of the cylinder G, and under such wider spaces 5 is located a pan, X, for the reception of the nuts. The floor of the casing near the rear is provided with an opening, Z, through which some of the nuts pass, being directed through the same by means of a guide, A', which is secured to the floor of the casing. The trough 10 A' is inclined, and as the cylinder G revolves and carries along with it the nuts they will be moved into the said trough and conducted out of the casing, as seen in Fig. 1. By opening 15 the side door, B', of the casing more or less, the draft through the same can be controlled as circumstances require. The opening left at the front of the casing for withdrawing the front end of the scourer-shaft is closed during 20 the operation of the machine by a strip, C', which may be removed when desired.

The operation of the machine is briefly as follows: The unclean peanuts are placed in the hopper and the cylinder G and feed-roller Q 25 are put in motion by any suitable means. The nuts and foreign matters drop down into the feed-chute and thence into the cylinder G at its front end. In passing through the cylinder the nuts are gradually scoured, the dirt and other foreign substances passing between 30 the narrow-spaced hoops K', and a large quantity of the nuts passing through the wider-apertured part of the cylinder, while the remainder of the nuts will be conducted off through the guide or trough A'. The lighter portions 35 or chaff and dust are carried off through the fan-case by the draft and discharged through the opening N², chute S', the upper compartment of the casing, and the pipe P². The 40 heavier foreign substances will remain in the lower and upper compartments, and can be readily removed through their respective door-

openings. By making the hoops K' laterally adjustable the size of the spaces between them may be regulated as desired. In practice I shall provide each end of the fan-case N with 45 a slide, Y, for regulating the induction of air into this case from the lower compartment of the casing.

I do not under this application claim, broadly, a peanut scourer and screen constructed of separate strips and arranged in a casing under the influence of a draft of air, as such a device is shown and described in my application for Letters Patent the serial number of which is 55 127,973.

Having described my invention, I claim as new—

1. In a peanut-cleaner, the combination of a casing having an upper and a lower compartment, a rotary scouring-cylinder, a fan located near the mouth of the hopper, side passages leading into the apertured fan-case, and a passage crossing the mouth of the hopper and leading into the upper compartment of the 65 casing, substantially as described.

2. The combination of the casing, the scouring-cylinder and its shaft, removable from the casing, the removable chute S, the table T, the removable beams U U, and the casing-door B', 70 substantially as described.

3. The combination of a fan, a fan-case having end openings and an opening, N², a casing having passages S' R, the chute S, the hopper, the upper and lower compartments, and a cylinder adapted to scour peanuts, substantially 75 as described.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

JOSEF JOHNSON.

Witnesses:

F. O. McCLEARY,
W. R. KEYWORTH.