

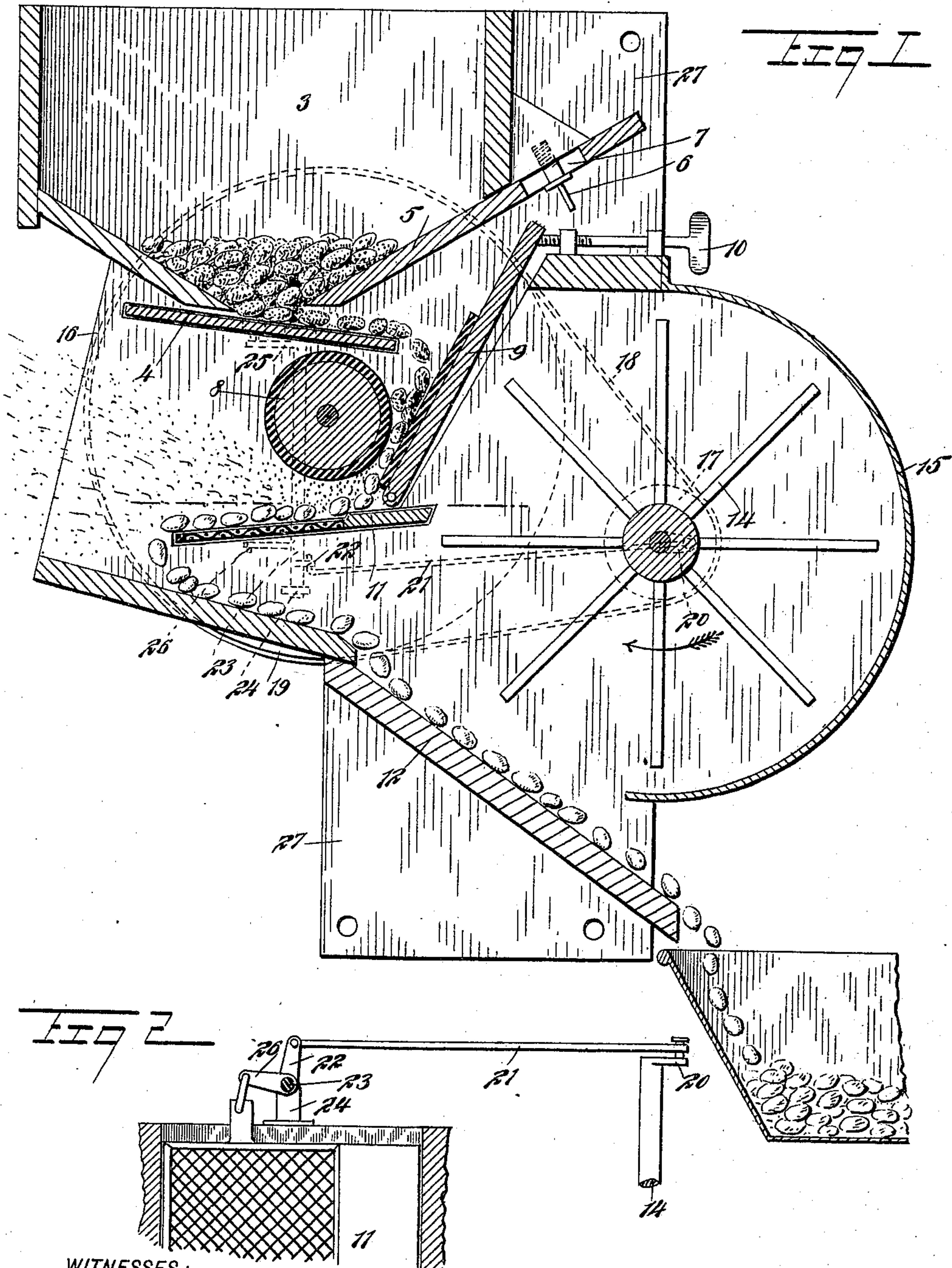
No. 684,088.

Patented Oct. 8, 1901.

B. B. NEWMAN.  
SEPARATOR.

(Application filed Sept. 13, 1900.)

(No Model.)



WITNESSES:  
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# UNITED STATES PATENT OFFICE.

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## SEPARATOR.

SPECIFICATION forming part of Letters Patent No. 684,088, dated October 8, 1901.

Application filed September 13, 1900. Serial No. 29,927. (No model.)

*To all whom it may concern:*

Be it known that I, BENJAMIN BATES NEWMAN, a citizen of the United States, and a resident of Tampa, in the county of Hillsboro and State of Florida, have invented a new and Improved Separator, of which the following is a full, clear, and exact description.

The purpose of this invention is to provide an effective machine for cleaning the husks from peanut-kernels. It is well known that after the shells or hulls are broken from the peanuts a brown skin or husk envelops them, and it is for the removal of this skin that my invention is designed.

This specification is the disclosure of one form of the invention, while the claims define the actual scope thereof.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in both views.

Figure 1 is a vertical section of the device, and Fig. 2 is a fragmentary plan view showing the shaking-screen and the mechanism for driving the same.

The machine has a feed-hopper 3, which discharges on a shaking feed-board 4, mounted to slide in the casing of the machine. The discharge of the hopper may be regulated by an adjustable wall 5, held by a set-screw 6, which works in a slot 7 in the adjustable wall and is engaged with a part of the casing of the machine. Beneath the feed-board 4 is located a rubber-faced roller 8, which serves to loosen the husks from the peanuts. This roller works against a breast 9, provided with a rubber face, as shown. The breast is hinged at its lower end and is engaged at its upper end by a set-screw 10, by means of which the position of the breast may be adjusted to regulate the distance between the breast and the roller 8. This breast also is adjustable to such position as to act as a part of the fan casing or box 15 to direct the blast.

Below the roller 8 is arranged a shaking-screen 11, over the left-hand side of which the peanuts with the hulls removed are discharged into a chute 12, which delivers the peanuts into any suitable receptacle, as will be understood. At the right of the screen 11 is a fan 14, which revolves inside of the box or casing 15 in the direction of the arrow shown in Fig. 1, so as to direct the blast under the screen 11 and throw the hulls out

through the discharge-opening 16 at the left-hand side of the machine. The shaft of the fan 14 may be driven by hand or power, as desired, and on this shaft is placed a pulley 17, over which a belt 18 passes to a large pulley 19, fastened on the axis of the roller 8. The shaft or axis of the fan 14 also carries a crank 20, which is connected to a rod 21, to drive the same. This rod is connected with an arm 22 of a vertical shaft 23, which is mounted in suitable bearings 24, attached to the casing of the machine. The shaft 23 has an arm 25, which is connected with the shaking feed-board 4 to drive the same, and the shaft 23 has a second arm 26, connected with the screen 11 to drive it. The machine may be mounted in any desired manner. For example, portions 27 of the frame or casing may be screwed to a wall or other vertical support, whereby to sustain the machine. This, however, forms no part of my invention, as will be understood.

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

1. In a separator, the combination of a stationary feed-hopper, a shaking feed-board arranged below the same, a cylinder, a breast with which the cylinder works, a shaking-screen arranged below the cylinder, a chute receiving the material from the screen, a fan directing a blast along the chute and through the screen, a rock-shaft extending vertically alongside the machine and driven in unison with the fan and cylinder, cranks on the rock-shaft, and connections respectively between the cranks and the feed-board and screen whereby to operate the feed-board and screen.

2. A separator, comprising a hopper, a fan-casing, a fan therein, a shaking feed-board below the hopper, a revoluble cylinder with a yielding face arranged below the board, a breast arranged opposite the cylinder and having a yielding face, said breast being pivoted at its lower edge and adjustable in such position as to act also as a part of the fan-casing to direct the blast, a shaking-screen arranged below the cylinder and breast, and mechanism for operatively driving the several parts.

BENJAMIN BATES NEWMAN.

Witnesses:

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