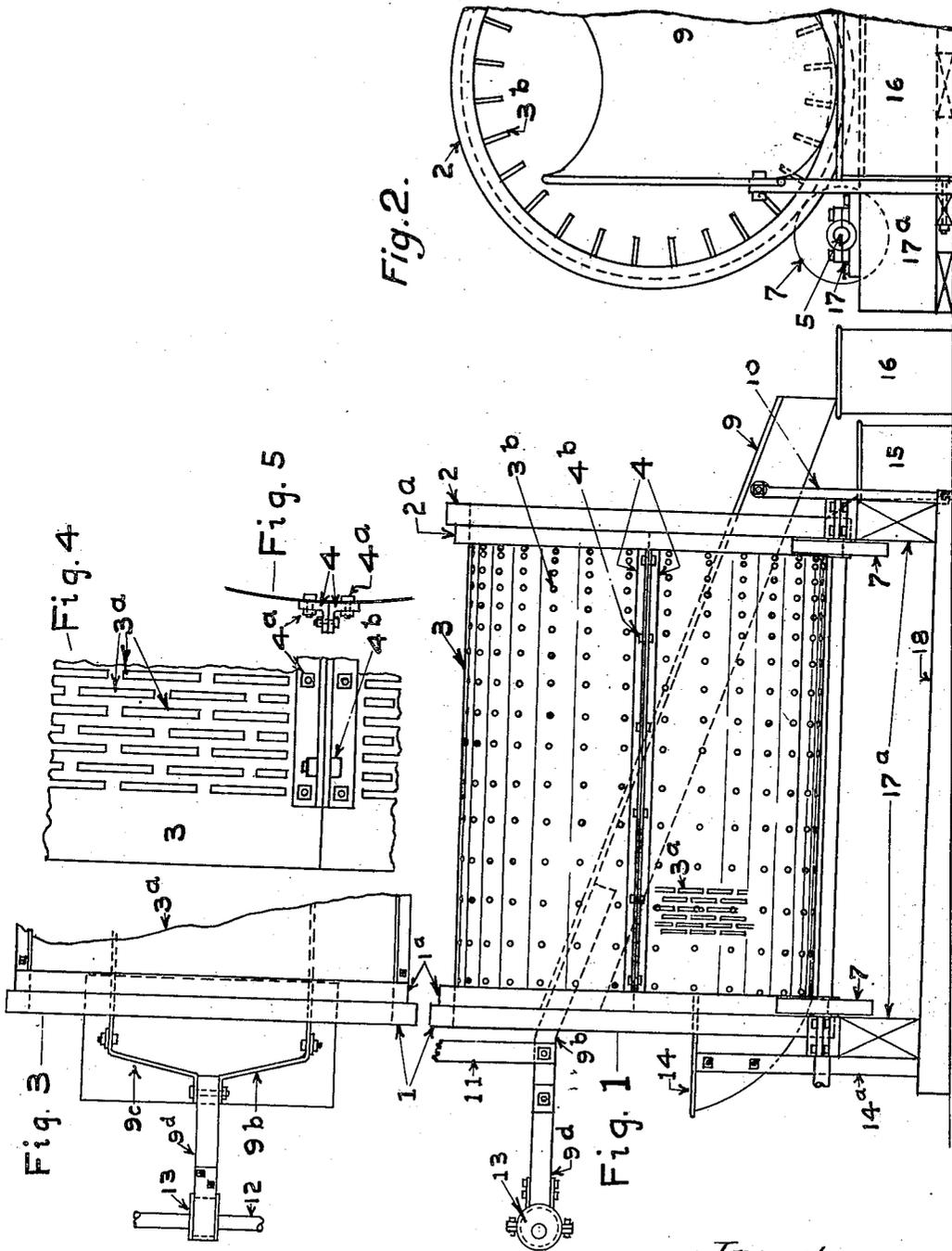


E. E. STANLEY,
RAISIN SEPARATING MACHINE.
APPLICATION FILED SEPT. 14, 1920.

1,369,986.

Patented Mar. 1, 1921.



Inventor.
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Atty

UNITED STATES PATENT OFFICE.

EDWARD E. STANLEY, OF SAN DIEGO, CALIFORNIA.

RAISIN-SEPARATING MACHINE.

1,369,986.

Specification of Letters Patent.

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Application filed September 14, 1920. Serial No. 410,299.

To all whom it may concern:

Be it known that I, EDWARD E. STANLEY, a citizen of the United States, residing at San Diego, in the county of San Diego and State of California, have invented a certain new and useful Raisin-Separating Machine, of which the following is a specification.

My invention relates to a machine for automatically separating raisins from the stems and other substances and the objects of my invention are: first, to provide a machine that will automatically separate raisins from the stems and other substances and deliver them into separate receptacles; second, to provide a machine of this class which will clean the raisins by eliminating any fine substances and third, to provide a machine of this class which is very simple and economical of construction, durable, positive in its action, sanitary and which will not readily deteriorate or get out of order.

With these and other objects in view as will appear hereinafter my invention consists of certain novel features of construction, combination and arrangement of parts and portions as will be hereinafter described in detail and particularly set forth in the appended claims, reference being had to the accompanying drawings and to the characters of reference thereon which form a part of this application in which:

Figure 1 is a side elevational view of the machine showing some of the parts fragmentarily; Fig. 2 is a fragmentary front end elevational view thereof; Fig. 3 is a top view of a fragmentary portion thereof; Fig. 4 is a fragmentary portion of the drum and its connection on an enlarged scale and Fig. 5 is a fragmentary end view thereof.

Similar characters of reference refer to similar parts and portions throughout the several views of the drawings.

The end supports 1 and 2, cylindrical member 3, angle members 4, shafts 5 and 6, rollers 7 and 8, chute 9, chute supports 10 and 11, shaft 12, eccentric 13, feed hopper 14, receptacles 15 and 16, bearings 17 and base members 18 constitute the principal parts and portions of my raisin separating machine.

The end members 1 and 2 are annular metallic members provided with reduced off-

set portions 1^a and 2^a so that the portions 1 and 2 form a flange so that the rollers 7 and 8 will engage the portions 1^a and 2^a and they will be held in position by means of the flanged portions 1 and 2. These members 1 and 2 are held in their spaced relation by and serve as reinforcements for the cylindrical member 3 which is preferably a sheet metal member secured together at its edges by means of angle members 4 which are secured to the opposite edges by means of bolts 4^a and said angle bars are secured together by means of bolts 4^b shown best in Figs. 1, 4 and 5. This cylindrical sheet metal member is provided with a plurality of rectangular shaped perforations 3^a over its complete surface and secured thereto and extending inwardly are a plurality of rods 3^b which extend inwardly as shown best in Fig. 2 of the drawings. The rollers 7 and 8 are mounted on the shafts 5 and 6 respectively and said shafts are journaled in bearings 17 which are mounted upon supports 17^a. Secured to one of the supports 17^a are uprights 14^a upon the upper end of which is mounted a feed hopper 14. Mounted in the cylindrical member 3 and its one end extending outwardly therefrom is a chute 9 which is a curved bottomed preferably metallic chute which is pivotally mounted on the supports 10 which are pivotally mounted upon the base 18 and its other end is pivotally connected to supports 11 which are also pivotally mounted to permit longitudinal reciprocation of the chute 9. To this chute 9 is connected bars 9^b, 9^c and 9^d which extend outwardly and to which is secured the eccentric 13 which is mounted on the shaft 12. It will be here noted that the shafts 5, 6 and 12 may be operated by any driving mechanism. It will also be noted that the machine is set on an incline as shown best in Fig. 1 of the drawings so that the raisins will tend to move toward the lower end and pass out into the receptacle 15 and it will also be noted that the inwardly extending rods 3^b are gradually set closer together toward the lower end. Mounted under the lower end of the chute 9 is another receptacle 16 to receive the stems.

The operation is as follows: The miscellaneous mass of raisins and stems are fed

into the hopper 14 and pass into the cylindrical member 3 which revolves by the contact with the rollers 7 and 8 and the rods 3^b carry the raisins and stems around, the raisins dropping out after a little over a one-fourth revolution while the stems are carried around by reason of their lightness and tenacious quality to approximately one-half revolution and drop into the chute 9, raisins and stems being carried upwardly in this way several times, unless the stems are caught in the chute and the raisins gradually pass out into the receptacle 15 and stems reciprocated to facilitate the movement of the stems and lighter substances. The small particles, dirt and short stem parts pass out through the perforations 3^a.

Though I have shown and described a particular construction, combination and arrangement of parts and portions I do not wish to be limited to this particular construction, combination and arrangement but desire to include in the purview of my invention the construction, combination and arrangement substantially as set forth in the appended claims.

Having thus described my invention what I claim as new and desire to secure by Letters Patent is:

1. A raisin separating machine, including a cylindrical member positioned on an incline, means for revolving said cylindrical member, a plurality of members extending inwardly from the inner surface of said cylindrical member, means to facilitate the feeding of raisins and stems into said cylindrical member and a chute reciprocally mounted on an incline through said cylindrical member adapted for receiving and conveying stems from the interior of said cylindrical member.

2. A machine of the class described, including a cylindrical member positioned on an incline provided with a plurality of perforations in its outer surface, means for revolving said cylindrical member, a plurality of rods secured to and extending from the inner surface and the said cylindrical mem-

ber and a chute positioned on an incline in said cylindrical member.

3. A machine of the class described, including a cylindrical member positioned on an incline provided with a plurality of perforations in its outer surface, means for revolving said cylindrical member, a plurality of rods secured to and extending from the inner surface and the said cylindrical member, a chute positioned on an incline in said cylindrical member and means for reciprocating said chute longitudinally therein.

4. A raisin separating machine, including a perforate cylindrical member, a plurality of members extending inwardly from the inner surface of said cylindrical member, means for revolving said cylindrical member and a chute positioned longitudinally through said cylindrical member.

5. A raisin separating machine, including a perforate cylindrical member, a plurality of members extending inwardly from the inner surface of said cylindrical member, means for revolving said cylindrical member, a chute positioned longitudinally through said cylindrical member and means for reciprocating said chute.

6. A raisin separating machine, including a revoluble perforate cylindrical member, a plurality of members extending inwardly from the inner surface of said cylindrical member, a chute reciprocally mounted through said cylindrical member adapted to receive raisin stems and convey them from the interior of said cylindrical member.

7. A raisin separating machine, including a revoluble perforate cylindrical member, a plurality of members extending inwardly from the inner surface of said cylindrical member, a chute reciprocally mounted through said cylindrical member adapted to receive raisin stems and convey them from the interior of said cylindrical member and means for reciprocating said chute.

In testimony whereof, I have hereunto set my hand at San Diego, California, this 8th day of September, 1920.

EDWARD E. STANLEY.