

O. H. RENÉ.
MACHINE FOR REMOVING THE PULP FROM PREVIOUSLY SEPARATED PINEAPPLE PEEL.
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Fig. 2.

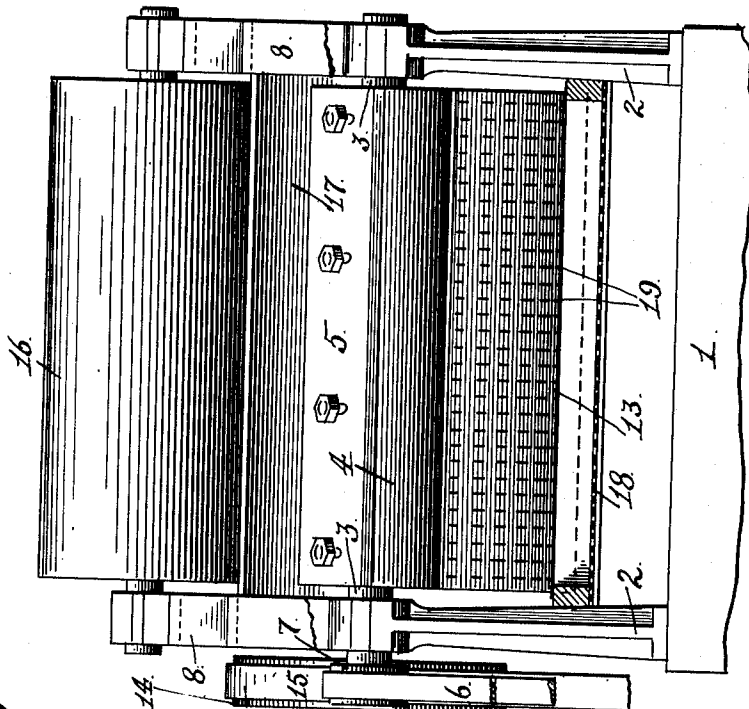
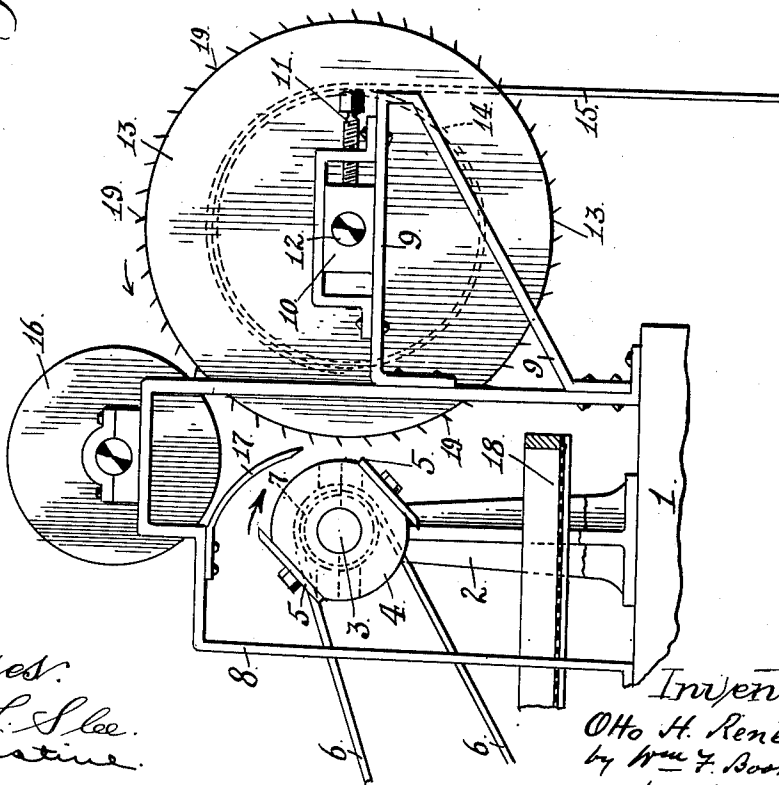


Fig. 1.



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MACHINE FOR REMOVING THE PULP FROM PREVIOUSLY-SEPARATED PINEAPPLE-PEEL.

1,034,144.

Specification of Letters Patent.

Patented July 30, 1912.

Application filed March 20, 1912. Serial No. 684,977.

To all whom it may concern:

Be it known that I, OTTO H. RENÉ, a citizen of the United States, residing at Honolulu, in the Island of Oahu and Territory of Hawaii, have invented certain new and useful Improvements in Machines for Removing the Pulp from Previously-Separated Pineapple-Peel, of which the following is a specification.

My invention relates to the class of pineapple-treating machines.

In the art as heretofore generally practised there have been two distinct types of machines for divesting the pineapple of its peel or skin or rind, by any of which terms its floral-bract investment may be appropriately designated. One of these types cuts the peel away from the outside to the extent defined by the approach to the edible pulp, by which term the solid mass of the succulent fleshy inflorescence of the fruit may be properly called. The other type of machine cores the mass of edible pulp out of the peel, at the same time splitting the peel into segments for greater facility in removing the cored out mass. This latter type has some advantages, chiefly that of speed, and, perhaps, insuring a pulp which is less liable to have inedible remnants of the tough peel-bracts; but, on the other hand, for these very reasons, there is a resulting waste in the fact that a not inconsiderable portion of the edible pulp remains with the cut off peel and is thrown away.

It is the object of my invention to prevent this waste by removing this edible pulp which still clings to the flesh-side of the cut off peel, to the end that it may be used in one form or another as food.

My invention consists in the novel machine and in its construction, arrangement and combination of parts which I shall now fully describe by reference to the accompanying drawings in which—

Figure 1 is an end view of my machine. Fig. 2 is a front view of the same.

1 is a stand from which rise columns 2 in the upper ends of which are mounted the end journals 3 of a cutter-head 4, which said head carries the knives 5. The cutter-head is driven by a belt 6 to a pulley 7. 8 is a frame rising from the stand 1. To this is secured the bracket 9, which carries the

bearing 10, adapted to be adjusted by the screw 11. In this bearing and a similar one at the other end are mounted the journals 12 of a carrier-drum 13, driven by a pulley 14 and belt 15. The periphery of the carrier-drum is fitted with a number of pins 19 which in their best arrangement all extend outwardly at an inclination and point in the direction of rotation (shown by the arrow) of the carrier-drum. In the upper portion of the frame 8 is rotatably mounted a presser roll 16, having a smooth surface. The frame 8 also has secured to it a guard shield 17 which overlies the cutter-head. 18 is a screen underlying the cutter-head.

The operation of the machine is as follows:—The cutter-head 4 and the carrier-drum 13 rotate in the direction shown by the arrows. A section of the pineapple peel is placed by the operator upon the periphery of the carrier drum, with its pulp or flesh-side outward. The inclined pins 19 immediately engage the scaly underside of the peel and carry the peel section forward under the roll 16. By this roll the peel is flattened out and impaled upon the pins of the carrier-drum so that it is well held to said drum. By the rotation of the drum, the peel is then presented to the action of the knives 5, which cut off from it the pulp to be saved. This pulp falls upon the screen 18 and such bits of the hard peel as may be broken off and fall down with it are there separated. The peel being now divested of so much of the pulp as may be desired, is carried on down and may be readily removed from the carrier-drum in suitable manner. The adjustment of the carrier-drum provides for suitable regulation of the coacting parts consistently with the thickness of the peel and the amount of pulp to be scraped or cut off. The guard-plate 17 protects the presser roll from flying particles and pieces and directs the material forward so that it may fall down upon the screen 18.

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

1. In a machine for the described purpose, the combination of a rotatable carrier-drum provided with means on its periphery for engaging and holding the sections of

peel with the flesh-side outward, a rotatable cutter head provided with cutting knives extending parallel to the carrier said carrier-drum being so arranged relatively to the cutter-head as to present the flesh-side of said peel sections to the action of the knives in order to remove the pulp from said sections.

2. In a machine for the described purpose, the combination of a rotatable carrier-drum provided with a number of impaling pins on its periphery for engaging and holding the sections of peel with the flesh-side outward, a rotatable cutter head provided with cutting knives extending parallel to the carrier drum said carrier-drum being so arranged relatively to the cutter-head as to present the flesh-side of said peel sections to the action of the knives in order to remove the pulp from said sections.

3. In a machine for the described purpose, the combination of a rotatable carrier-drum provided with a number of impaling pins on its periphery projecting therefrom at an inclination in the direction of the drum's rotation for engaging and holding the sections of peel with the flesh-side outward, a rotatable cutter head provided with cutting knives extending parallel to the carrier drum said carrier-drum being so arranged relatively to the cutter-head as to present the flesh-side of said peel sections to the action of the knives in order to remove the pulp from said sections.

4. In a machine for the described purpose, the combination of a rotatable carrier-drum provided with means on its periphery for engaging and holding the sections of peel with the flesh-side outward, a rotatable cutter head provided with cutting knives extending parallel to the carrier drum said carrier-drum being so arranged relatively to the cutter-head as to present the flesh-

side of said peel sections to the action of the knives in order to remove the pulp from said sections, and means for adjusting the carrier-drum to and from the cutter-head.

5. In a machine for the described purpose, the combination of a rotatable carrier-drum provided with a number of impaling pins on its periphery projecting therefrom at an inclination in the direction of the drum's rotation for engaging and holding the sections of peel with the flesh-side outward, a rotatable cutter head provided with cutting knives extending parallel to the carrier drum said carrier-drum being so arranged relatively to the cutter-head as to present the flesh-side of said peel sections to the action of the knives in order to remove the pulp from said sections, and means for adjusting the carrier-drum to and from the cutter-head.

6. In a machine for the described purpose, the combination of a rotatable carrier-drum provided with means on its periphery for engaging and holding the sections of peel with the flesh-side outward, a rotatable cutter head provided with cutting knives extending parallel to the carrier drum said carrier-drum being so arranged relatively to the cutter-head as to present the flesh-side of said peel sections to the action of the knives in order to remove the pulp from said sections; and a presser-roll coacting with the carrier-drum to flatten out the peel section on said drum in advance of its presentation to the knives.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

OTTO H. RENÉ.

Witnesses:

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