

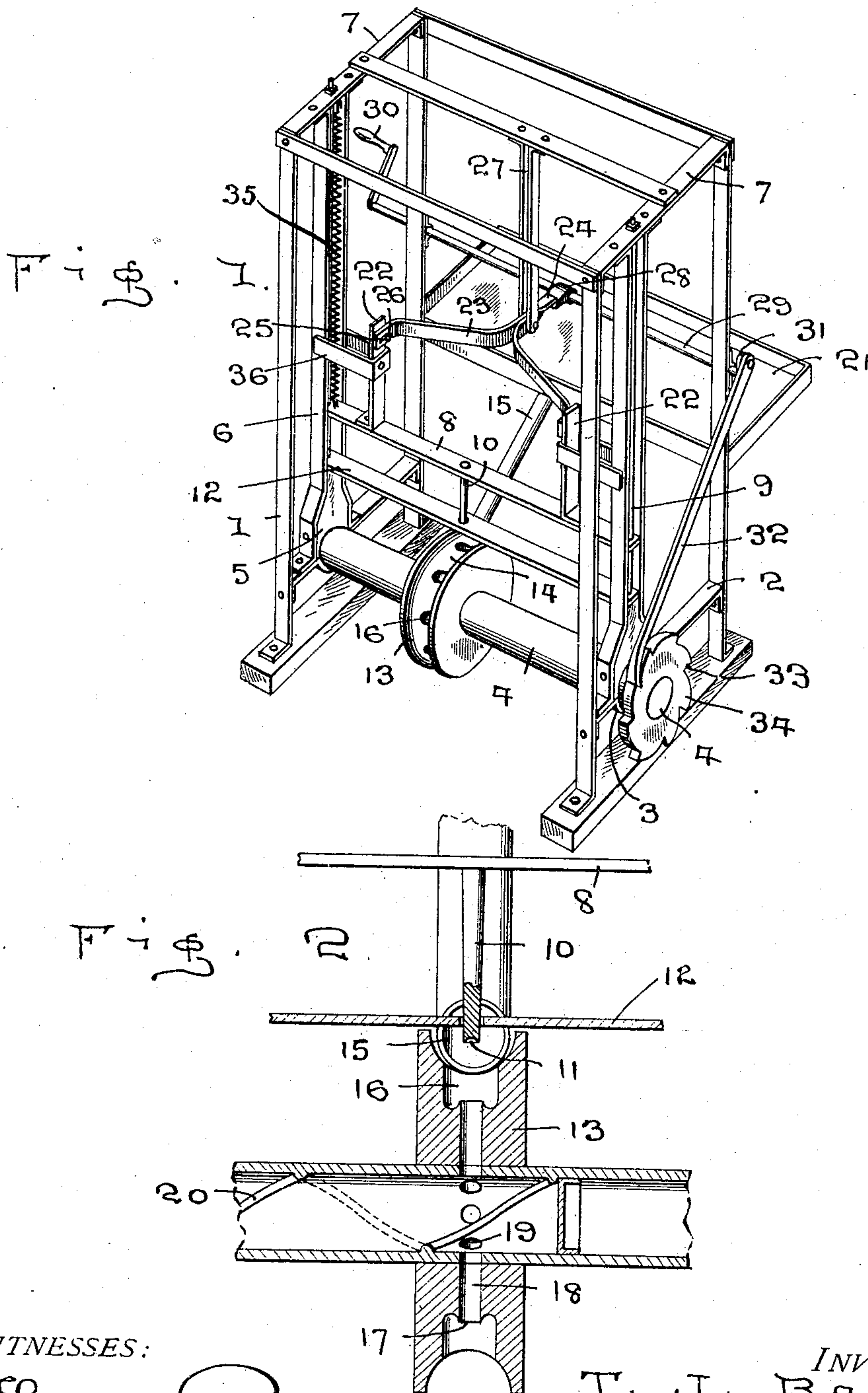
J. PRICER & T. J. BARTOW.

SEEDING DEVICE.

APPLICATION FILED APR. 13, 1909.

939,087.

Patented Nov. 2, 1909.



WITNESSES:

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UNITED STATES PATENT OFFICE.

JOHN PRICER AND THOMAS J. BARTOW, OF MANZANOLA, COLORADO.

SEEDING DEVICE.

939,087.

Specification of Letters Patent.

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Application filed April 13, 1909. Serial No. 489,631.

To all whom it may concern:

Be it known that we, JOHN PRICER and THOMAS J. BARTOW, citizens of the United States, residing at Manzanola, in the county of Otero and State of Colorado, have invented certain new and useful Improvements in Seeding Devices; and we do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

Our invention relates to new and useful improvements in cherry seeding devices and more particularly to that class adapted to be used for removing the seed or stone from cherries and our object is to provide means for retaining the cherry in position while a mandrel is passed therethrough and the seed removed from the cherry.

A further object is to provide means for retaining a quantity of the cherries and feed the same therefrom one at a time.

A further object is to provide means for receiving the cherries and intermittently moving the same in the path of the mandrel.

A further object is to provide means for operating the cherry receiving device and a still further object is to provide means for lowering the mandrel into engagement with the cherry.

Other objects and advantages will be hereinafter referred to and more particularly pointed out in the claim.

In the accompanying drawings forming part of this application, Figure 1 is a perspective view of the machine complete, and, Fig. 2 is a detail sectional view through the seeding arrangement showing the parts on an enlarged scale.

Referring to the drawings in which similar reference numerals designate corresponding parts throughout the several views, 1 indicates a frame, which may be constructed in the usual or any preferred manner, said frame having cross beams 2 at each end thereof, which cross beams have semi-circular bearings 3, in which rest the ends of a tubular shaft 4, the shaft being held in the bearings 3 by means of bearing blocks 5 carried between the lower ends of standards 6, which standards extend from the cross beams 2 to the upper bars 7 of the frame 1.

The standards 6 are preferably arranged in pairs and spaced apart to receive the ends of a mandrel bar 8 and form guides therefor, said mandrel bar being held against

longitudinal movement by extending rods 9 through openings in the ends of the mandrel bar, said rods being positioned between the standards and secured at their upper and lower ends to parts of the frame.

Depending from the longitudinal center of the bar 8 is a mandrel 10, the lower end of which is provided with a concavity 11, so that when the mandrel is lowered into engagement with a cherry and passed there-through, the seed will be engaged by the concavity and forced through the cherry, the free end of the mandrel being introduced through a guide bar 12 carried between the standards 6.

In order to convey the cherries below the mandrel and in position for the mandrel to engage the seed as the mandrel passes through the cherry, we provide a drum 13, which drum is fixed to the tubular bar and is provided around its periphery with a circumferential groove 14, which groove is preferably semi-circular in cross section to receive the lower end of a circular chute 15, the wall of the groove also serving to prevent the cherries from passing sidewise from off the drum. The face of the groove 14 is provided at intervals with circular depressions 16, in which the cherries are deposited as they leave the end of the chute 15, the base of the depressions having elevated portions 17, intersecting which are ducts 18, which ducts communicate with the interior of the tubular shaft 4 through openings 19 and as the seed is removed from the cherry, it is forced into the duct 18 and as the duct at this time is in a vertical position, the seed will readily descend and enter the tubular shaft and by providing a worm 20 on the interior of the shaft, the seed will be conveyed to the outer end of the shaft and deposited in any suitable receptacle at the side of the machine.

The upper end of the chute 15 communicates with a pan 21, in which pan are deposited the cherries to be seeded and to cause the cherries to enter the chute, the pan is preferably inclined and the chute connected thereto at its lowermost edge and at a point adjacent its longitudinal center, the size of the chute being such as to admit of but one cherry entering at a time.

The mandrel 10 is operated manually and is accomplished by extending arms 22 upwardly from the mandrel bar 8 and attaching to their upper ends the bifurcated ends

23 of a lever 24, the bifurcated ends being provided with slots 25, through which extend pins 26 and by which means the bifurcated ends are attached to the arms, the slots 5 permitting the upward and downward movement of the lever.

The lever 24 is pivotally mounted between hangers 27 suspended from the upper portion of the frame 1, the free end of said lever 10 extending into the path of a cam 28, which cam is fixed to a shaft 29 carried in bearings on the frame 1, so that when the shaft 29 is rotated in one direction, the bifurcated ends of the lever will be lowered and the mandrel 15 directed into the depression 16, positioned below the mandrel, the seed of the cherry contained in the depression being forced through the cherry and into the duct 18 from whence it is deposited into the tubular 20 shaft 4.

Secured to one end of the shaft 29 is a crank 30, through the medium of which power may be applied to the shaft, while the opposite end of the shaft is provided with a 25 crank portion 31, to the free end of which is attached a latch 32, the lower end of said latch engaging teeth 33 on a ratchet wheel 34 and as said ratchet wheel is fixed to one end of the shaft 4, the rotation of the shaft 30 29 will cause the tubular shaft 4 to rotate and by properly spacing the teeth on the ratchet wheel, the shaft 4 will be rotated a sufficient distance with each rotation of the shaft 29 to bring the next succeeding de- 35 pression centrally below the mandrel 10.

After the mandrel and bar carrying the same have been depressed to extract the seed from the cherry, they are again elevated by means of springs 35, which springs are con- 40 nected at one end with the cross bars 7 and at their opposite ends to the mandrel bar 8 and in order to form a more perfect guide for the mandrel and bar, guide clips 36 are attached to the arms 22, the free ends of 45 said clips passing to the outer face of the standards 6, thereby forming a more rigid connection between the mandrel bar and the standards.

It will be understood that although we have shown the device as operated manu- 50 ally and provided with but one drum, the same may be operated in any suitable manner and any number of the drums attached to the tubular shaft 4, thereby increasing the seeding capacity of the device. 55

It will likewise be seen that by removing the seed from the cherry in the manner disclosed, said cherry will not be unduly mashed or mutilated.

What we claim is: 60

A device of the character described, comprising a tubular shaft having arranged therein a conveyer for delivery laterally of said shaft, a drum arranged centrally upon said shaft and provided with an annular 65 groove in its periphery, said drum also having a series of depressions communicating with said groove and a series of ducts communicating with said depressions and with the interior of said shaft, a feed tube hav- 70 ing its lower end adapted to deliver into said groove, means for feeding the objects to be treated into said tube, a plunger having its lower end entering said drum, in central alinement transversely thereof, a bar ar- 75 ranged for vertical movement and connected to said plunger, means for guiding the movement of said bar, resilient members connected to said bar, for delivering their pressure thereon, a bifurcated member having 80 its arms connected to upstanding members of said bar, means for actuating said bifurcated member, said shaft being provided with a ratchet at one end and a pawl-member connected to the means for actuating 85 said bifurcated member and engaging said ratchet.

In testimony whereof we have signed our names to this specification in the presence of two subscribing witnesses.

JOHN PRICER.
THOMAS J. BARTOW.

Witnesses:

W. O. CONKLIN,
A. W. THOMPSON.