

No. 876,805.

PATENTED JAN. 14, 1908.

P. HUBERTY.

DEVICE FOR CULLING AND DISCHARGING APPLES, POTATOES, &c.

APPLICATION FILED APR. 22, 1907.

Fig. 1.

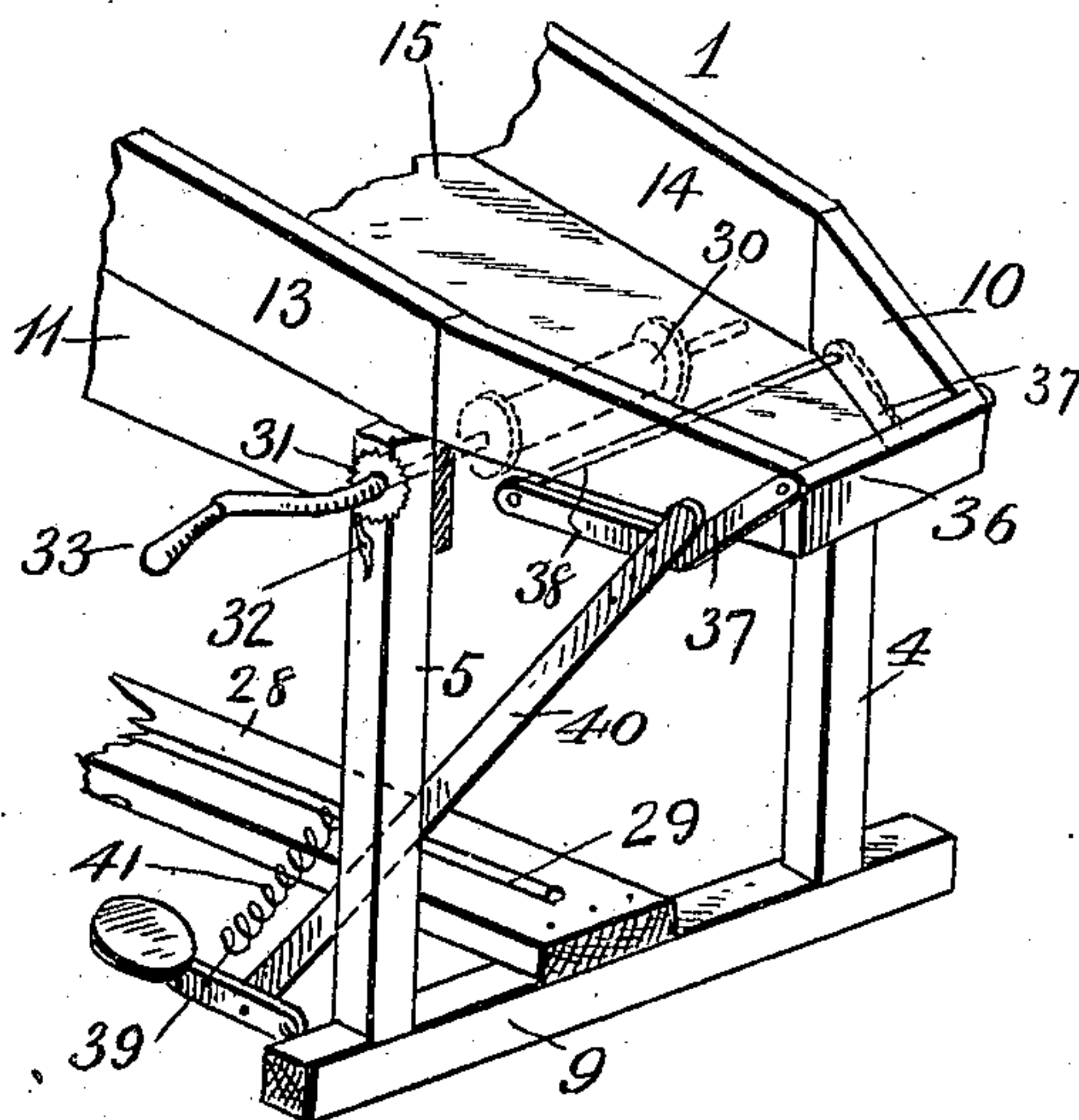
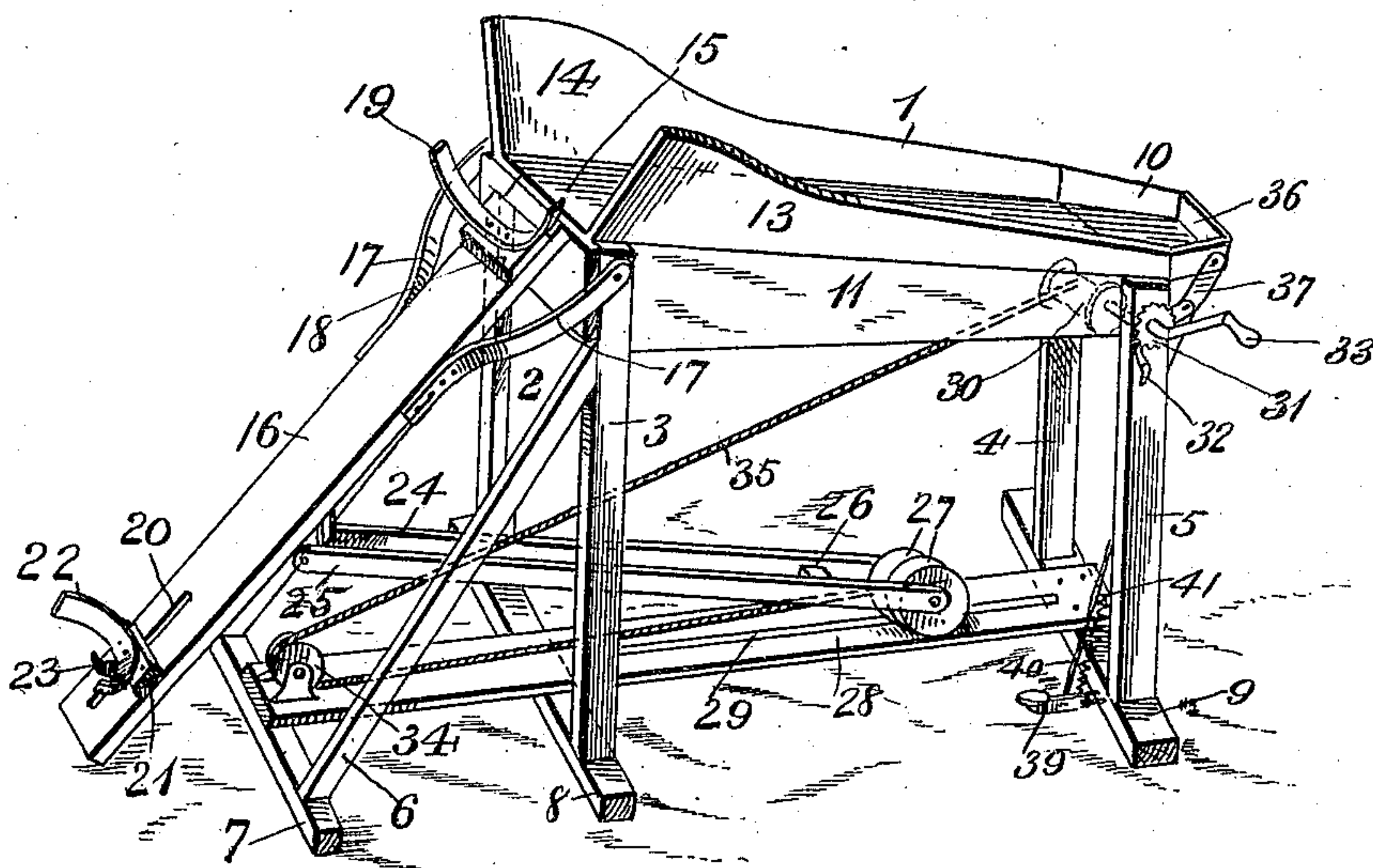


Fig. 2

Witnesses
F. L. Ourand
C. C. Trott

Inventor
Peter Huberty
By
J. M. Duffie
Attorney

UNITED STATES PATENT OFFICE.

PETER HUBERTY, OF LE SUEUR, MINNESOTA.

DEVICE FOR CULLING AND DISCHARGING APPLES, POTATOES, &c.

No. 876,805.

Specification of Letters Patent.

Patented Jan. 14, 1908.

Application filed April 22, 1907. Serial No. 369,661.

To all whom it may concern:

Be it known that I, PETER HUBERTY, a citizen of the United States, residing at Le Sueur, in the county of Le Sueur and State of Minnesota, have invented certain new and useful Improvements in Devices for Culling and Discharging Apples, Potatoes, &c., of which the following is a specification.

My invention is a device for culling and discharging apples, potatoes, etc., but may be used for other similar fruits and vegetables, and consists in a table inclinely secured on legs and provided with a hopper, a spout, a gate and a device for elevating the barrel or vessel that contains the fruit to be emptied into the hopper, and means for emptying the fruit from the hopper. I attain these objects by the mechanism illustrated in the accompanying drawings, in which—

Figure 1, is a perspective view of my invention, looking at the rear right hand corner thereof: Fig. 2, is a perspective view of my invention, looking at the front right hand corner, the rear end being broken away.

Similar numerals refer to similar parts throughout the several views.

My invention is described as follows:—The table 1, is about 32 inches high in the rear and 30 inches in front. The numerals 2 and 3, represent the rear legs and the numerals 4 and 5, the front legs. The rear legs 2 and 3, are braced by beams 6, secured to a cross-beam 7, and mounted on a cross-beam 8, and the front legs 4 and 5, on a cross-beam 9.

The top of the table is about 24 by 36 inches, and has a spout 10, projecting forward about 6 inches; 11 represents the front side piece of the frame, the rear side piece being exactly similar, and are about 6 inches deep in the rear, and 4 inches deep in the front, giving a slope forward of about 2 inches to the table top; 13 and 14, are the side-boards forming the hopper, which is removable and can be replaced by a grate or screen, so as to adapt it to different uses, and when a grate or screen is used for the top of the table for cleaning peas, beans etc., a spout or chute can be suspended under the table to collect all screenings in a receptacle at the side. The barrel containing the produce to be culled can be held at any position by means of the dog 32. 15, is the top of the table. A beam 16, is hinged to the rear end of the table, and is long enough to reach to the floor or ground, when set out at an angle of about 30 degrees from the legs 2 and 3.

This beam is hinged to the rear of said table by means of iron bars 17, which act both as hinges and braces. A block 18, is secured to the upper end and the upper face of the beam 16, and there is secured to the upper face of said block a curved bar 19, its ends pointing upwardly. There is in the lower end of said bar, a longitudinal slot 20, and adjustably secured to the lower end of said bar, by means of a thumb-screw which works against the under face of said bar, is a block 21, and secured to the upper face of said block is a curved bar 22, having a rest 23. Hinged to the under face and near the lower end of said bar 16, are two push-beams 24 and 25; near the front ends of these beams and situated between the two, to which said beams are secured, is a block 26, and journaled between the forward ends of these beams 24 and 25, are wheels 27; these wheels 27, run on a base-board 28, secured to the cross-beams 7, 8 and 9, and run on either side of a rail 29, secured longitudinally to said base-board.

Horizontally journaled in the upper ends of the legs 4, and 5, is a spool 30, and rigidly secured on the outer end of said spool is a ratchet wheel 31, held by a dog 32, and operated by a crank arm 33, and running from said spool, downwardly and rearwardly and over a pulley 34; journaled in bearings on the rear end of said base-board, is a cable 35, the forward lower end of which is secured to the axle on which said wheels 27, are journaled. A gate 36, is hinged to the front end of the spout 10, by means of straps 37, one on each side, and the gate is held up in place by means of said straps; the rear and lower ends of said straps are hinged to the lower face of said spout by a rod 38.

Hinged to the forward cross-beam 9, is a treadle 39, and hinged to said treadle is a bar 40, the upper end of which is adjustably secured to straps 37, and secured to the outer end of said treadle is the lower end of a coil spring 41, the upper end of which is secured to the leg 5, the tension of which keeps the gate 36, closed.

I operate my machine as follows:—I place the barrel, or vessel, containing the apples or potatoes, or other vegetables or fruits on the beam 16, its lower end resting against the stop 23, and its upper end in the arms of the curved bar 19. I then turn the crank 33, which winds up the cable 35, elevates the lower end of the beam 16, and empties the fruit into the hopper, and when I desire to

empty the hopper, I press down the free end of the treadle 39, which lets down the trap 36.

Although I have specifically described the combination, construction and arrangement of the several parts of my invention I do not confine myself particularly to such specific combination, construction and arrangement, as I claim the right to make such changes and modification therein as may clearly fall within the scope of my invention, and which may be resorted to without departing from the spirit, or sacrificing any of my patentable rights therein.

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

1. The combination of a table, consisting of a top 15, legs 2, 3, 4 and 5, side-boards 13 and 14, spout 10, and a gate 36; a beam, provided with a curved bar 19, secured near its upper end; a curved bar 22, and stop 23, adjustably secured near the lower end of said beam, hinged to the rear end of said table; a base-board 28, carrying a rail 29, and secured to the base-beams 7, 8 and 9, of said table; push-bars 24 and 25, their rear ends secured to the beam 16; a block 26, secured between the front ends of said bars; wheels 27, journaled between the front ends of said bars and running on each side of the track 29; a pulley 34, secured to the rear end of said base-board; a drum 30, journaled in the front end of said table; a ratchet wheel 31, secured on the axle of said drum; a dog 32, adapted to lock said ratchet wheel; a crank handle 33, adapted to rotate said spool; a cable 35, having its lower end secured to the axle of wheels 27, passing thence under pulley 34, and its upper end secured to the drum 30; a gate 36, hinged to the front end of said spout; arms 37, adapted to close said gate; a treadle 39, hinged to the lower cross-beam 9; a beam 40, secured to said treadle and to said arms 37, and a spiral spring 41, secured to said treadle and said legs 5, substantially as shown and described and for the purposes set forth.

2. The combination of the table 1, provided with legs mounted on cross-beams; side boards, one secured to each side of said table; a spout, secured to the front end of said table; a gate, hinged to the front end of said spout; arms, hinged to said spout

and to said gate, and adapted to open and close the same; a treadle, hinged to the front cross-beam; a bar, its lower end hinged to said treadle, and its upper end to one of said arms, said bar, treadle and arms adapted to open said gate, and a spring secured to said treadle and one of the legs of said table and adapted, through said treadle, bar and arm to close said gate, substantially as shown and described and for the purposes set forth.

3. The combination of a table, having side boards, its legs resting on cross-beams; a beam, hinged by means of side bars to the rear end of said table; a curved bar, its ends turned up, mounted on said beam near its upper end; a curved bar, its ends turned up, adjustably mounted on said beam near its lower end, and a stop, secured to the lower edge of said last mentioned bar, said beam, bars and stop adapted to hold a barrel, the free end of said beam to be elevated sufficiently high to empty the contents of the barrel onto the table, substantially as shown and described, and for the purposes set forth.

4. A table, provided with side boards, its legs and braces being secured to cross-beams; a spool, provided with a ratchet dog and handle, journaled in the front end of said table; a base-board, secured to the said cross-beams; a rail, longitudinally secured on said base-board; a pulley, secured to the rear end of said base-board; a beam, hinged to the rear end of said table; push-bars, hinged to the lower face of said beam; a block, secured between and near the front ends of said bars; wheels, journaled between the front ends of said bars; a cable, having its lower end secured to said block, passing thence under said pulley, its upper end secured to said spool, said cable adapted to be wound around said spool, to draw said push-bars backwardly, and thereby raise the free end of said hinged beam, substantially as shown and described and for the purposes set forth.

In testimony whereof I affix my signature, in presence of two witnesses.

PETER HUBERTY.

Witnesses:

J. A. ANDEREGG,
MABEL W. AMIOT.