(No Model.) 2 Sheets—Sheet 1.

C. L. SPENCER.

RAISIN SEEDING MACHINE.

No. 575,762. Patented Jan. 26, 1897.

Fig. 1.

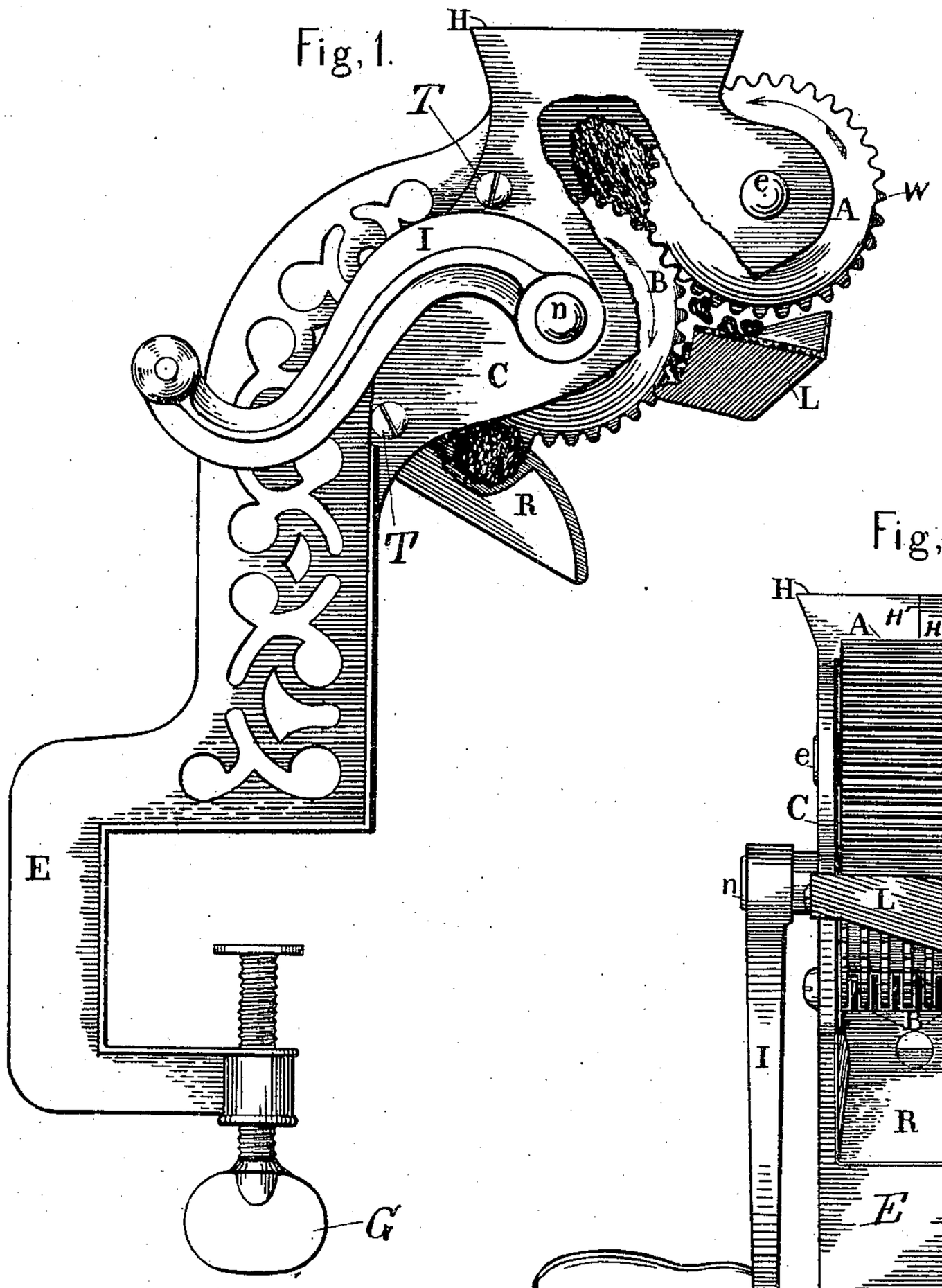

Fig. 2.

Witnesses:
Milton H. Spencer
John C. Spencer.

Inventor:
Charles L. Spencer

(No Model.)

2 Sheets—Sheet 2.

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Fig. 3

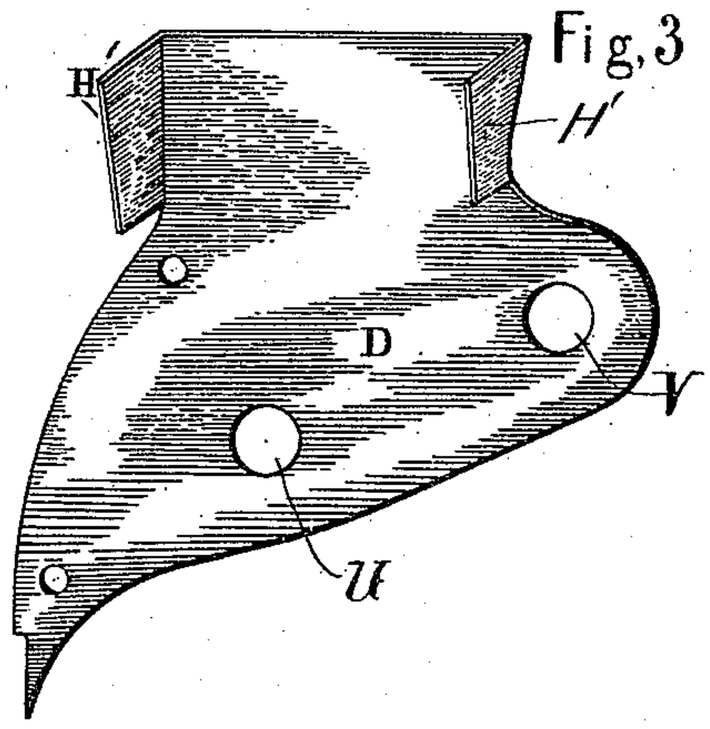


Fig. 4.

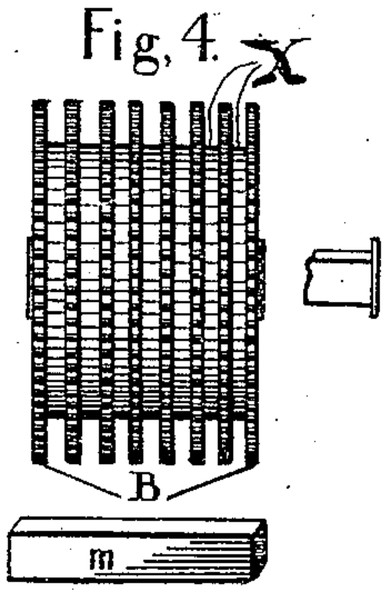


Fig. 5.

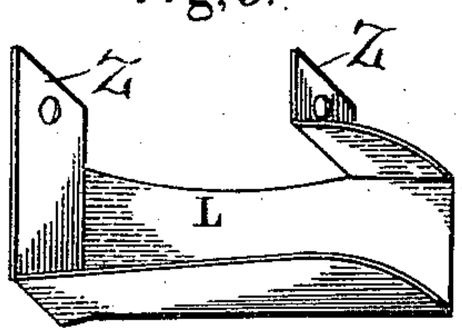


Fig. 6.

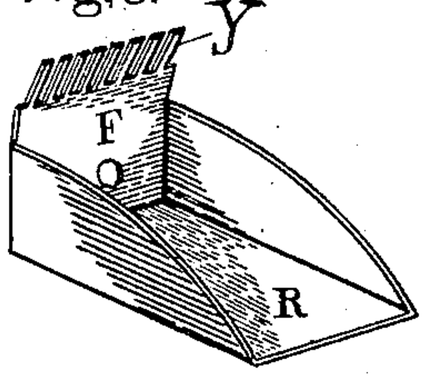
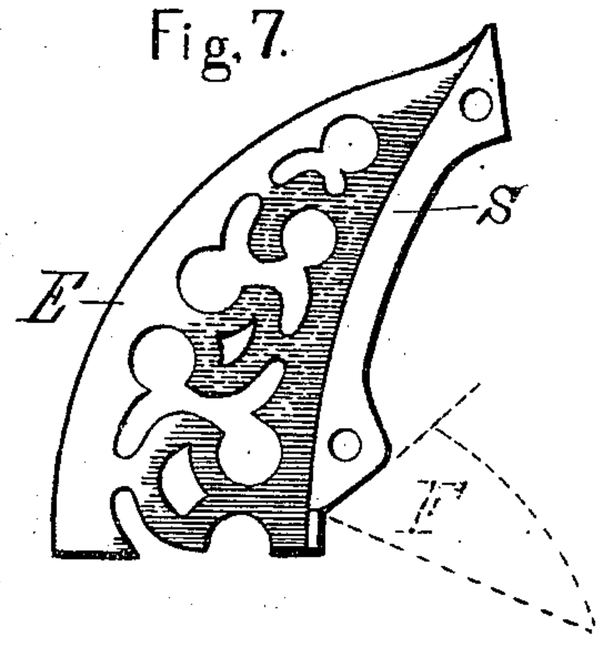


Fig. 7.



Witnesses:

Wilton H. Spencer

John C. Spencer

Inventor.

Charles L. Spencer

UNITED STATES PATENT OFFICE.

CHARLES L. SPENCER, OF PROVIDENCE, RHODE ISLAND.

RAISIN-SEEDING MACHINE.

SPECIFICATION forming part of Letters Patent No. 575,762, dated January 26, 1897.

Application filed September 19, 1895. Serial No. 562,999. (No model.)

To all whom it may concern:

Be it known that I, CHARLES L. SPENCER, a citizen of the United States, residing at Providence, in the county of Providence and State of Rhode Island, have invented new and useful Improvements in Raisin-Seeding Machines; and I do hereby declare that the following specification, taken in connection with the drawings making a part of the same, is a full, clear, and exact description thereof, in which—

Figure 1 is a broken side view of my machine, showing the operation of seeding raisins. Fig. 2 is a front elevation, and Figs. 3, 4, 5, 6, and 7 are detail views.

My invention relates to raisin-seeding machines, and has for its object to provide a machine that is simple, efficient, and capable of being cheaply made and easily operated; and it consists in the improved construction of parts, as will be hereinafter fully set forth.

Referring more particularly to the drawings, E indicates the main frame, which may be secured in position by the ordinary clamping-screw G, and has its upper end provided with a reduced and perforated web S, to which the side plates C and D are secured by means of bolts or screws T. Each of the plates C and D are provided with two bearings U and V and with wings H′, which, when the plates are in position upon the standard E, abut against each other and form the hopper H. Journaled in the bearings V by means of the shaft *e* is an elastic roller A, the periphery of which is corrugated or fluted longitudinally to form elastic teeth or cogs W.

A series of cog-wheels B are secured on a tubing *m*, a prismatic form being preferable, and they are held the required distance apart by means of washers X, arranged between them with their cogs on a line parallel with each other to correspond and engage with the cogs of the elastic roller. When the wheels and the washers are arranged in position, the ends of the tubing are upset against the end wheels, whereby the whole are firmly held together. The central portion of the shaft *n* is made prismatic to fit within the tubing and cause the wheels to be rotated by means of the crank I.

Secured to the plates C D below the roller A by means of the perforated wings Z Z is a clearer L, which is open at one end and provided with a wall along one side and has the portion between the wings cut away in a curve to correspond with the curvature of the wheels B, the bottom of the trough being at an angle to the axes of the wheels B.

Secured to the main frame E, as shown in the dotted lines in Fig. 7, by means of a screw and directly below the wheels B and between the lower ends of the plates C D is a shedder F. The upper end of the shedder is provided with teeth Y Y, which fit between the wheels B, and the lower portion of the shedder is provided with a spout or conductor R.

In operation the frame or standard E is secured in position and the raisins fed into the hopper and motion imparted to the roller A and wheels B in the direction indicated by the arrows in Fig. 1 by means of the crank I. As the raisins pass between the wheels and roller the fleshy portion is forced in between the wheels, while the seeds are carried between the cogs and deposited in the clearer L, from which they pass by gravity out of the open end of the clearer to one side of the machine. The fleshy portion or pulp of the raisin is carried around between the wheels B until it is engaged by the teeth Y Y of the shedder and forced out into the trough R, from which it passes into a suitable receptacle.

By reason of the elastic cogs fitting between the rigid cogs of the wheels B the seeds of the raisins are caused to turn or roll within the spaces of the elastic cogs, which thereby more thoroughly detaches the pulp from the seed and produces a better result than could be otherwise obtained, and by locating the clearer L so close to the wheels B and at an angle or incline thereto the seeds are prevented from being carried around with the pulp or of wedging in the machine and preventing its efficient operation. By making the teeth of the shedder of a suitable width to easily fit between the wheels B and of such length that their ends may nearly reach the peripheral surface of the washers between the wheels all of the pulp is removed, and any danger of the machine being clogged by the pulp is prevented.

By securing the shedder between the lower ends of the plates C and D it virtually completes the hopper and is prevented from turn-

ing sidewise upon a single screw, by means of which it is held in position, and by making the corrugations of the roller A to correspond with the teeth or cogs of the wheels B it is not necessary to be governed by a particular size for attaining the desired result for seeding raisins.

Having thus described my invention, I claim—

1. In a raisin-seeder, the combination of a frame, the upper end of which is provided with a perforated web or flange, of plates secured to said perforated portion, said plates being provided with flanges, which abut against each other and form a hopper, each of said plates being further provided with perforations forming bearings, an elastic roller journaled in two of said bearings, the periphery of which is provided with longitudinal corrugations, a crank-shaft in the other bearings, gear-wheels and washers alternately secured on said shaft, a clearer, and a shedder, substantially as set forth.

2. In a raisin-seeder, the combination with a frame, of plates secured to the upper end thereof, said plates being provided with a hopper, an elastic roller and a series of geared wheels journaled between said plates, a clearer provided with wings secured to the plates below the elastic roller, the portion of the clearer between the wings being cut away on a curve to correspond with the curvature of the wheels, and secured adjacent thereto, and a shedder, substantially as set forth.

3. In a raisin-seeder, the combination, with a frame, of plates secured to the upper end thereof, an elastic roller and a series of geared wheels journaled between the plates, a series of washers arranged alternately between the wheels, a clearer below the elastic roller, and a shedder secured between the lower portion of the plates below the wheels, the upper edge of said shedder being provided with teeth to fit between the wheels, and the lower portion being provided with a spout, substantially as set forth.

CHARLES L. SPENCER.

Witnesses:
WILTON H. SPENCER,
JOHN C. SPENCER.