

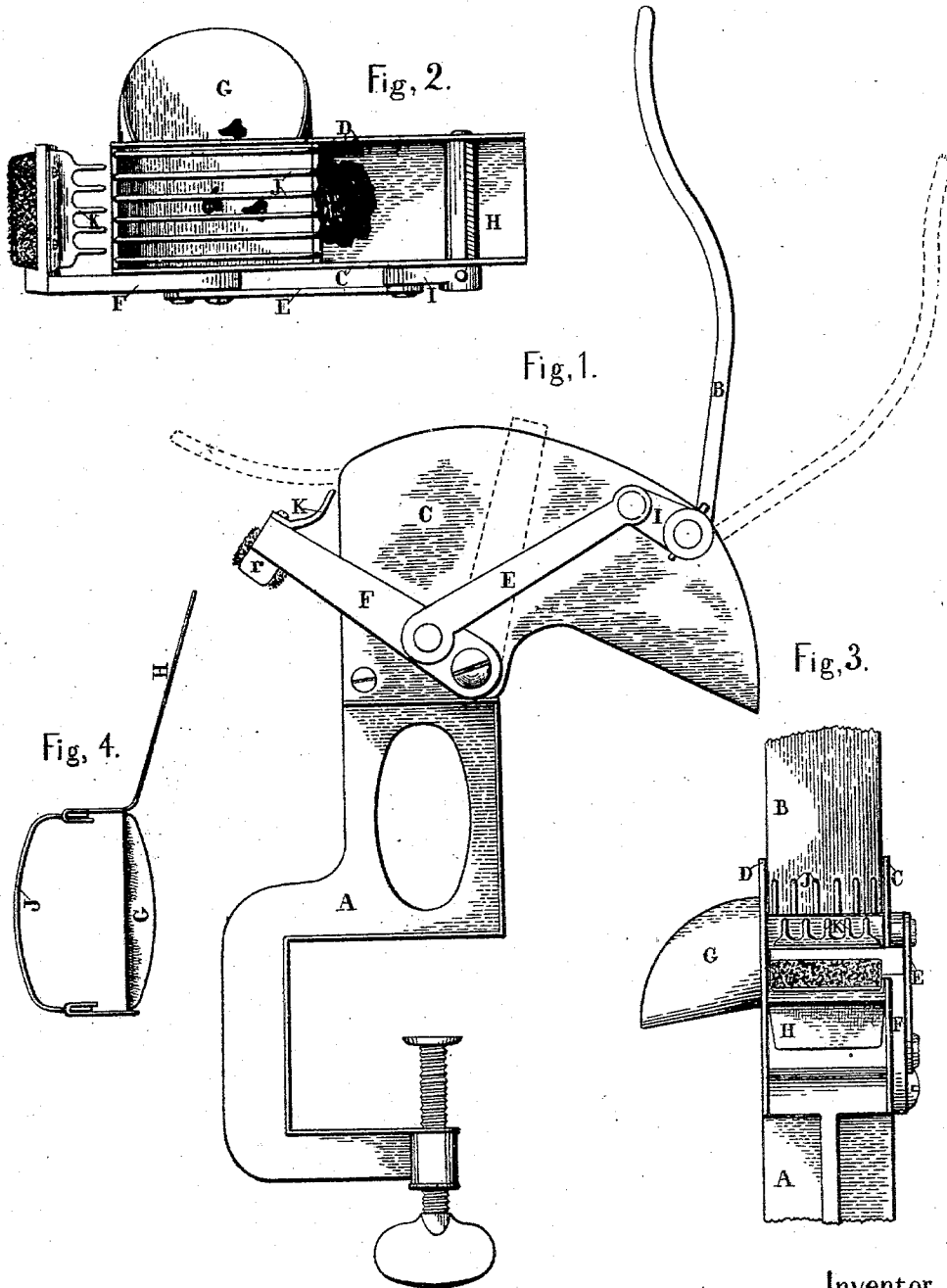
(No Model.)

2 Sheets—Sheet 1.

C. L. SPENCER.
HAND RAISIN SEEDER.

No. 552,975.

Patented Jan. 14, 1896.



Witnesses.

Wilton H. Spencer
Charles A. Spencer

Inventor.

Charles L. Spencer.

(No Model.)

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Fig. 5.

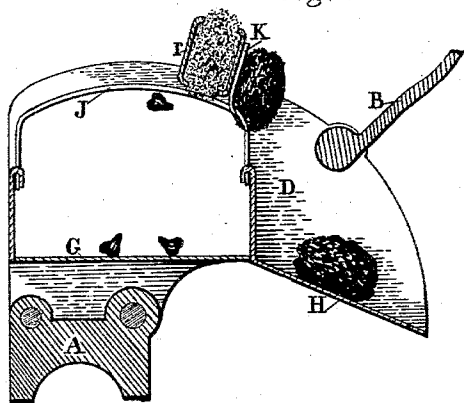


Fig. 7.

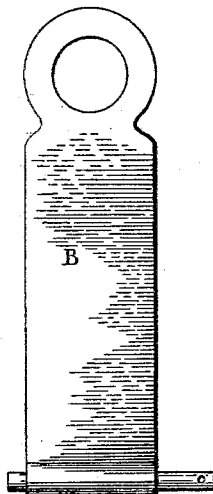
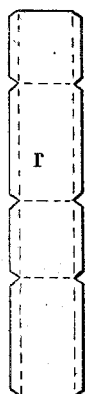


Fig. 6.



Witnesses.

Wilton H. Spencer.
John C. Spencer,

Inventor.

Charles L. Spencer

UNITED STATES PATENT OFFICE.

CHARLES L. SPENCER, OF PROVIDENCE, RHODE ISLAND.

HAND RAISIN-SEEDER.

SPECIFICATION forming part of Letters Patent No. 552,975, dated January 14, 1896.

Application filed August 13, 1894. Serial No. 520,179. (No model.)

To all whom it may concern:

Be it known that I, CHARLES L. SPENCER, of the city and county of Providence, in the State of Rhode Island, have invented new and useful Improvements in Hand Raisin-Seeders; 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 represents a vertical side view, having the hand or press lever in position as when inserting a raisin into the machine to be seeded. Fig. 2 represents a bird's-eye view with the hand or press lever as broken off. Fig. 3 is a sectional view of the rearward end. Fig. 4 is a side view of a flexible wire, showing the manner of fastening the ends, the attaching of the seed-receiver, and the bottom of the raisin-receiving chamber. Fig. 5 represents a longitudinal vertical sectional view in a plane centrally of and parallel to the greatest dimension of Fig. 2, showing the operation of the several parts in removing seeded raisins from the flexible wires and delivering the same into the receptacle in the front of the machine. Fig. 6 represents the blank as cut, from which a sponge-holder is formed. Fig. 7 is the hand or press lever as removed from the machine.

My present invention relates to improvements in hand raisin-seeders in which a hand or press lever is employed as lateral pressure against flexible wires; and it consists, first, in an operating-crank connected with a hand or press lever in combination with a connecting-rod and an oscillating arm; second, in the combination of an oscillating arm with a shedder and a sponge-holder, substantially as hereinafter described.

Similar letters of reference indicate corresponding parts.

In the accompanying drawings, A, Fig. 1, represents an ordinary clamp for fastening to a table or shelf. At its upper end is secured the sides C and D of the seeding-machine, as shown in Fig. 3.

It is not essential to my improved instrument to attach the same to a clamp, as a handle may be substituted in its stead, having one end projecting rearward sufficiently to

be held by the hand. In either way the seeder may be used conveniently.

Between the two sides C and D a number of flexible wires J are arranged parallel to each other and of the proper distance apart that seeds of raisins may not drop between them. These wires are first curved and soldered into end pieces, as represented in Fig. 4, the end pieces being then secured between the said sides C and D by riveting or soldering the same therein, by which means the flexible wires J are held in their places and said end pieces in connection with the bottom of the seed-receiver G, (which bottom extends to the side C through an opening cut in side D,) and through the continuous end H of one of the aforesaid end pieces two separate receptacles are formed, one for receiving the seeds of raisins and the other for receiving the raisins after being seeded, as represented in Fig. 2 and in section, Fig. 5. The upper edges of the sides C and D are made to project a short distance above the flexible wires J, that a raisin when placed upon said wires may not be liable to drop therefrom. (Shown in Fig. 3.)

The hand or press lever B, Fig. 7, is provided with pivots at its lower end, so that each pivot may fit to rotate through bearings in the front ends of the sides C and D. The pivot passing through side C is made to project the required distance for securing the crank I thereon, which may be held in place by a pin passing through the same, as shown in Fig. 1. To the said crank I one end of the rod E is jointed, and its opposite end jointed to the arm F, which arm, being similarly connected to the side C at its lower end, with its upper or opposite end remaining free, is made to oscillate through the working of the hand or press lever B when in use.

To the upper end of arm F is attached the shedder K and sponge-holder r, shedder K being provided with teeth of sufficient length and so arranged that they may be operated between the flexible wires J in delivering seeded raisins therefrom, as shown in section, Fig. 5. The sponge-holder r is constructed from one piece of sheet metal, bent to form two sides, and two ends (represented by dotted lines) having their edges

turned or bent inwardly, so that the expansion of the sponge may hold itself therein for its use, as shown in section, Fig. 5.

In the rotating of crank I, when passing 5 and repassing its lower dead-center, a short oscillating motion is imparted rearwardly to the arm F, it being so regulated through the adjustments of the several connections in timing the shedder K to operate in concert 10 with the working of the hand or press lever B.

To use my invention, the hand or press lever B being in position and shedder K adjusted in its relation to the same, as represented in Fig. 1, a raisin may be inserted 15 upon the flexible wires J. The lever B is then brought rearward, as shown by dotted lines, and while resting upon the raisin with sufficient lateral pressure the seeds are forced between said flexible wires J into the receptacle below by springing the aforesaid flexible wires apart. The lever B is then raised 20 and swung forward in the opposite direction, as shown by opposite dotted lines, the crank I rotating with said lever B and being connected with the oscillating arm F by a connecting-rod E, as hereinbefore described, the upper or free end of arm F, together with shedder K and sponge-holder *r*, are swung forward over the flexible wires J, as shown by 30 central dotted lines, at the same time the teeth of shedder K removing the seeded raisin and carrying it forward to the receptacle formed in the front of the machine. (Represented

in sectional view, Fig. 5.) The sponge in holder *r*, being charged with water, moistens 35 the flexible wires J by the reciprocating motion forward and backward given it from the working of the machine. The lever B is again brought in position as before, while the oscillating arm F returns rearward to its former place. Another raisin may now be inserted and the machine operated in the same manner as hereinbefore described, and so on, alternately, through the process of seeding 45 raisins.

I am aware that a hand or press lever has been used before with flexible wires. Therefore I do not claim the same broadly; but

What I do claim as new, and desire to secure by Letters Patent of the United States. 50 is—

1. The combination of the frame, the wires, the hand or press lever B, the crank arm I mounted on the pivot of said lever, the connecting rod E, oscillating arm F, and shed- 55 der K, substantially as described and for the purpose specified.

2. The combination of the frame, the wires, the press lever B, the oscillating arm F connected to and operated by the press lever, the 60 shedder K, and sponge holder *r*, substantially as described and for the purpose specified.

CHARLES L. SPENCER.

Witnesses:

WILTON H. SPENCER,

CHARLES A. SPENCER.