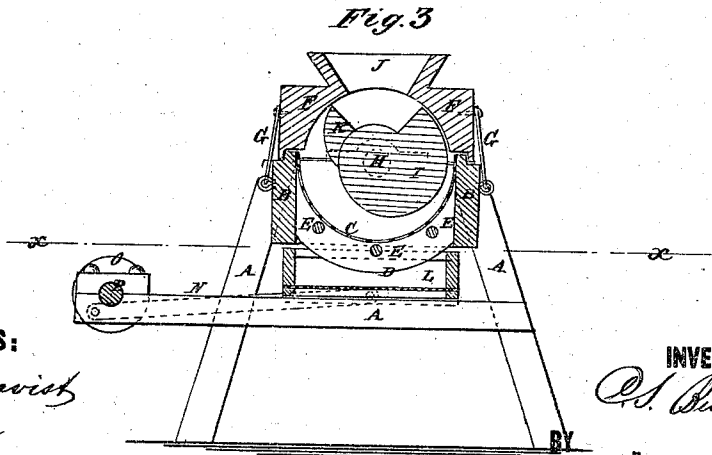
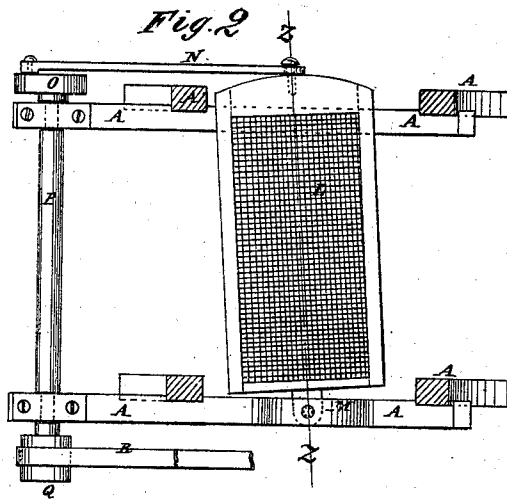
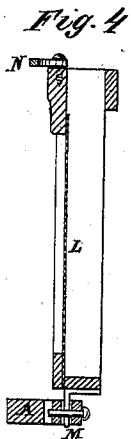
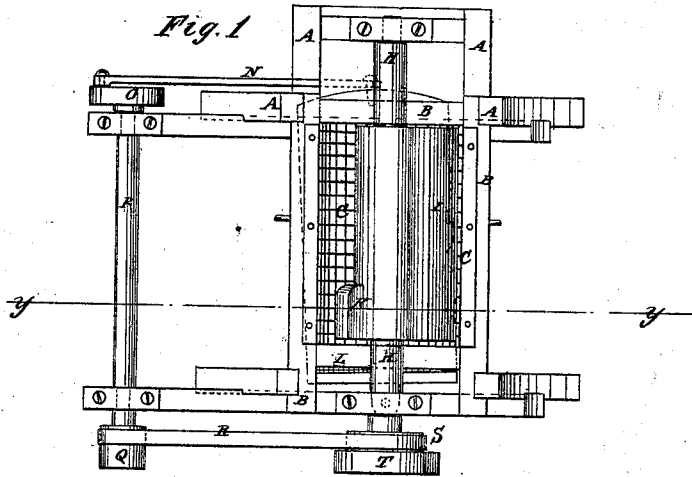


C. S. BUCKLIN.
Fruit-Mashers and Sifters.

No. 147,304.

Patented Feb. 10, 1874.



WITNESSES:

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UNITED STATES PATENT OFFICE.

CHARLES S. BUCKLIN, OF RED BANK, NEW JERSEY.

IMPROVEMENT IN FRUIT MASHERS AND SIFTERS.

Specification forming part of Letters Patent No. **147,304**, dated February 10, 1874; application filed November 15, 1873.

To all whom it may concern:

Be it known that I, CHARLES S. BUCKLIN, of Red Bank, Monmouth county and State of New Jersey, have invented a new and useful Improvement in Catsup Rubber and Sifter, of which the following is a specification:

Figure 1 is a top view of my improved machine, the cover being removed. Fig. 2 is a horizontal section of the same taken through the line *x x*, Fig. 3. Fig. 3 is a vertical cross-section of the same taken through the line *y y*, Fig. 1. Fig. 4 is a detail longitudinal section of the lower screen taken through the line *z z*, Fig. 2.

My invention has for its object to furnish an improved machine for rubbing tomatoes and straining out the seeds in making catsup, and for similar uses, and which shall be simple in construction, convenient in use, and effective in operation, doing its work rapidly and thoroughly. The invention consists in the combination of the box, the stationary screen, the shaft and cam, the cover, and the oscillating screen with each other and with the frame-work of the machine; and in the combination of the connecting-rod, the crank or crank-wheel, the shaft, the pulleys, and the belt, with the oscillating screen and the cam-shaft, as hereinafter fully described.

A represents the frame-work of the machine, to which is attached a box, B, of suitable size, and open at top and bottom. To the upper edge of the box B are attached the edges of a wire-cloth screen, C, which is made semi-cylindrical in form, and which is supported and prevented from sagging by two or more cross-ribs D and longitudinal rods E, as shown in Fig. 3. The box B is provided with a cover, F, secured in place by hooks G, or other conveniently-detachable fastenings, and is made semi-cylindrical upon its lower side, as shown in Fig. 3, so that the cavity between the screen C and cover F may be cylindrical in form. H is a shaft passing longitudinally through the center of the space between the screen C and cover F, and revolving in bearings attached to the frames A. To the shaft H is attached or upon it is formed a cam, I, extending the whole length of the screen C, and of such a size that its outer part may rub the tomatoes against and force them through the screen C. The outer part of the convex surface of the cam I is made upon the arc of a circle, having its center in the axis of the shaft H, to give a wide rubbing surface to said cam. The tomatoes

are introduced through a hopper, J, attached to the cover F near one end.

If desired, a scraper, K, may be attached to the shaft H opposite the cam I, to draw the tomatoes out of the hopper J, and prevent them from clogging in the mouth of the said hopper.

As the tomatoes are rubbed through the screen C they fall upon the screen L placed beneath it, and through which they pass into a receiver placed beneath to receive them. The box of the screen L is made close at its sides and one end, and the meshes of said screen are made so fine that the tomato-seeds cannot pass through, but must escape from its open end, to facilitate which the screen L is slightly inclined. The closed upper end of the screen L has an arm, M, attached to it, which enters a slot in the frame A, where it is secured and pivoted by a pin, several slots being formed in the said frame to receive the arm M, so that the inclination of the screen may be adjusted as required. The lower or free end of the screen L slides laterally upon a cross-bar of the frame A, and to it is pivoted the end of a connecting-rod, N, the other end of which is pivoted to the crank-pin of a small crank or crank-wheel, O, attached to the end of the shaft P. The shaft P revolves in bearings attached to the projecting ends of cross-bars of the frame A, and to its other end is attached a small pulley, Q, to receive a belt, R, which belt also passes around a pulley, S, attached to the shaft H, so that the screen L may be oscillated by the revolution of the said cam-shaft H. Motion is given to the shaft H by means of a crank or pulley, T, attached to its end.

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

1. The combination of the box B, stationary screen C, shaft and cam H I, cover F, and oscillating screen L, with each other, and with the frame A, substantially as herein shown and described.

2. The combination of the connecting-rod N, crank or crank-wheel O, shaft P, pulleys Q S, and belt R, with the oscillating screen L and cam-shaft H, substantially as herein shown and described.

CHARLES S. BUCKLIN.

Witnesses:

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