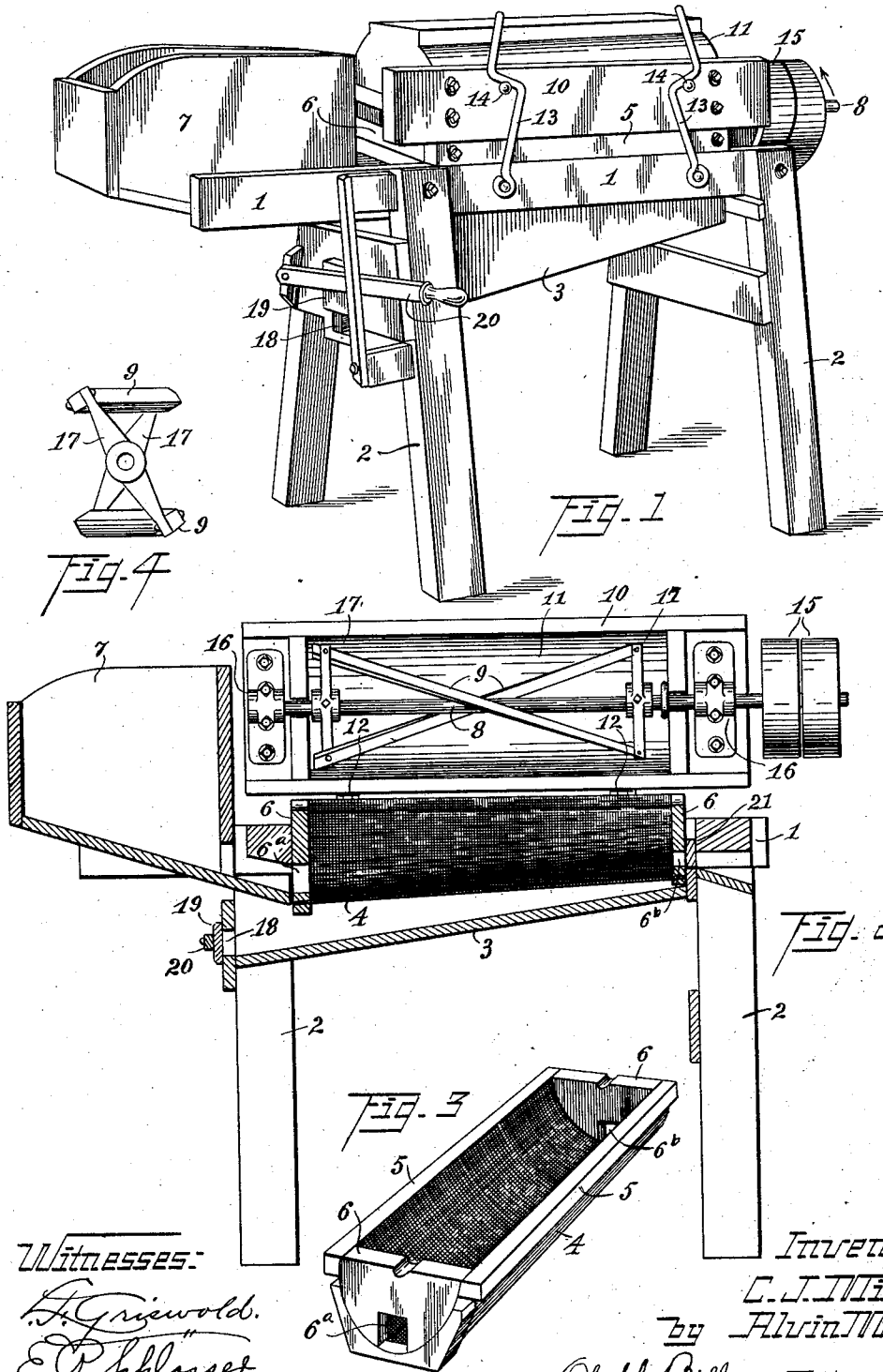


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FRUIT PULPING MACHINE.
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1,047,970.

Patented Dec. 24, 1912.



Witnesses:

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CHRISTIAN J. MILLER AND ALVIN MILLER, OF SMITHVILLE, OHIO.

FRUIT-PULPING MACHINE.

1,047,970.

Specification of Letters Patent.

Patented Dec. 24, 1912.

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To all whom it may concern:

Be it known that we, CHRISTIAN J. MILLER and ALVIN MILLER, citizens of the United States, residing at Smithville, in the county of Wayne and State of Ohio, have invented certain new and useful Improvements in Fruit-Pulping Machines, of which the following is a specification.

This invention relates to improvements in fruit and vegetable pulping machines, and is especially designed and adapted for pulping the various kinds of cooked fruits and vegetables in canning and preserving establishments for a production of canned goods such as tomato pulp, tomato catsup, plums, prunes, and the like, and manufacture of apple butter in the production of pulp and the separation therefrom of seeds, skins, cores, and the like.

The primary object of the invention is to provide a generally improved power pulping machine of this class of simple, cheap, and efficient construction, and having the parts conveniently arranged whereby the same may be readily inspected or cleaned or repaired. To this end the main frame is provided with a removable screen and a hinged frame and cover carrying the driving shaft and beaters, whereby said shaft and beaters may be swung back with the hinged frame for inspection of the parts, and the removal of the screen or sieve.

With the above-mentioned and other ends in view, the invention consists in the novel construction, arrangement, and combination of parts, hereinafter described, illustrated in the accompanying drawings, and particularly pointed out in the appended claim.

Referring to the drawings, forming a part of this specification, Figure 1, is a perspective view of the improved pulping machine in its normal or operative position. Fig. 2, a longitudinal cross sectional view, the hinged frame and attached parts being swung back to the open position for the removal of the removably mounted screen or sieve. Fig. 3, a perspective view of the screen or sieve removed. Fig. 4, an end view of the driving shaft and revoluble beaters or agitator bars.

Similar numerals of reference designate like parts throughout all the figures of the drawings.

The improved pulping machine comprises a stationary frame 1, mounted on suitable legs 2, and provided with a discharge chute

3. A screen or sieve 4, preferably semicylindrical in form is removably mounted in the main frame above the chute 3, said screen preferably comprising a screen frame made up of side bars 5, and ends 6, said side bars 5, being adapted to support the screen by resting upon the side bars of the frame 1, one of the ends being provided near the bottom of the screen or sieve with a feed neck or receiving opening 6^a, to receive the cooked fruits or vegetables to be pulped from a feed hopper 7, carried by the frame 1.

As a convenient means for mounting the power or driving shaft 6, and the revoluble beaters or agitator bars 9, adapted to normally revolve within and against the sieve or screen 4, in the pulping operation whereby the driving shaft and beaters may be swung upwardly for the convenient inspection and cleaning of the screen or sieve or the removal of the latter, a hinged frame 10, is provided, said frame being provided with a cover 11, and mounted on hinges 12, at one side of the stationary frame, the free side of the hinged frame or cover being adapted to be locked or held in its closed or normal position by means of a suitable lock or clamping device, such for example,—as the handle locking bars 13, shown in Fig. 1, of the drawings, said locking bars being adapted to engage and take over suitable bolts or projections 14, on the free side of the hinged frame 10, and being pivotally secured to the stationary frame 1.

The power or driving shaft 8, is provided with tight and loose pulleys 15, adapted to be driven by belting communicating with suitable source of power, said driving shaft being mounted in bearings 16, secured beneath the end members of the hinged frame 10. The revoluble beaters or agitator bars 9, are mounted upon and carried by suitable cross arms or bars 17, mounted on the driving shaft 8, said beaters or agitator bars 9, being adapted to revolve within and against the inner periphery of the screen or sieve 4, in the operation of pulping the cooked material and passing or working the same through the screen into the chute 3, below, and as a convenient means for storing the pulp and discharging the same at suitable intervals into a suitable vessel for use, the discharge end of the chute 3, is provided with a discharge opening 18, adapted to be opened and closed by means of a gate or slide 19, supported upon and carried by a

handle lever 20. The beaters or agitator bars 9, are inclined longitudinally (see Fig. 4) whereby to gradually work the material, such as seeds, skins, cores, and the like, toward the opposite or power end of the pulping machine similar to the action of a screw conveyer in the revolving movements of the beaters or agitators.

As a means for rendering the separating and pulping operation continuous the discharge end of the screen or sieve 4, is provided with a discharge opening 6^b, through which the separated material is adapted to pass, the size of said discharge opening 6^b, being adapted to be regulated or opened and closed by means of a slide 21.

From the foregoing description, taken in connection with the accompanying drawings, the operation and advantages of this invention will be readily understood.

Having thus described an embodiment of the invention, what is claimed and desired to be secured by Letters Patent is,—

A pulping machine, comprising a main

frame, an inclined discharge chute carried thereby and provided with a discharge mouth at one end thereof, a removable semi-cylindrical screen carried within said discharge chute and inclined toward and provided with a receiving opening at one end above one end of said chute and a discharge opening at the opposite end near the opposite end of said chute, a hopper leading to the receiving opening of said screen, and a driving shaft provided with beaters within said screen and inclined from said receiving opening to said discharge opening, said inclined beaters causing the material to travel against the inclination of said screen from said receiving opening up to said discharge opening.

In testimony whereof we have affixed our signatures in presence of two witnesses.

CHRISTIAN J. MILLER.

ALVIN MILLER.

Witnesses:

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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."