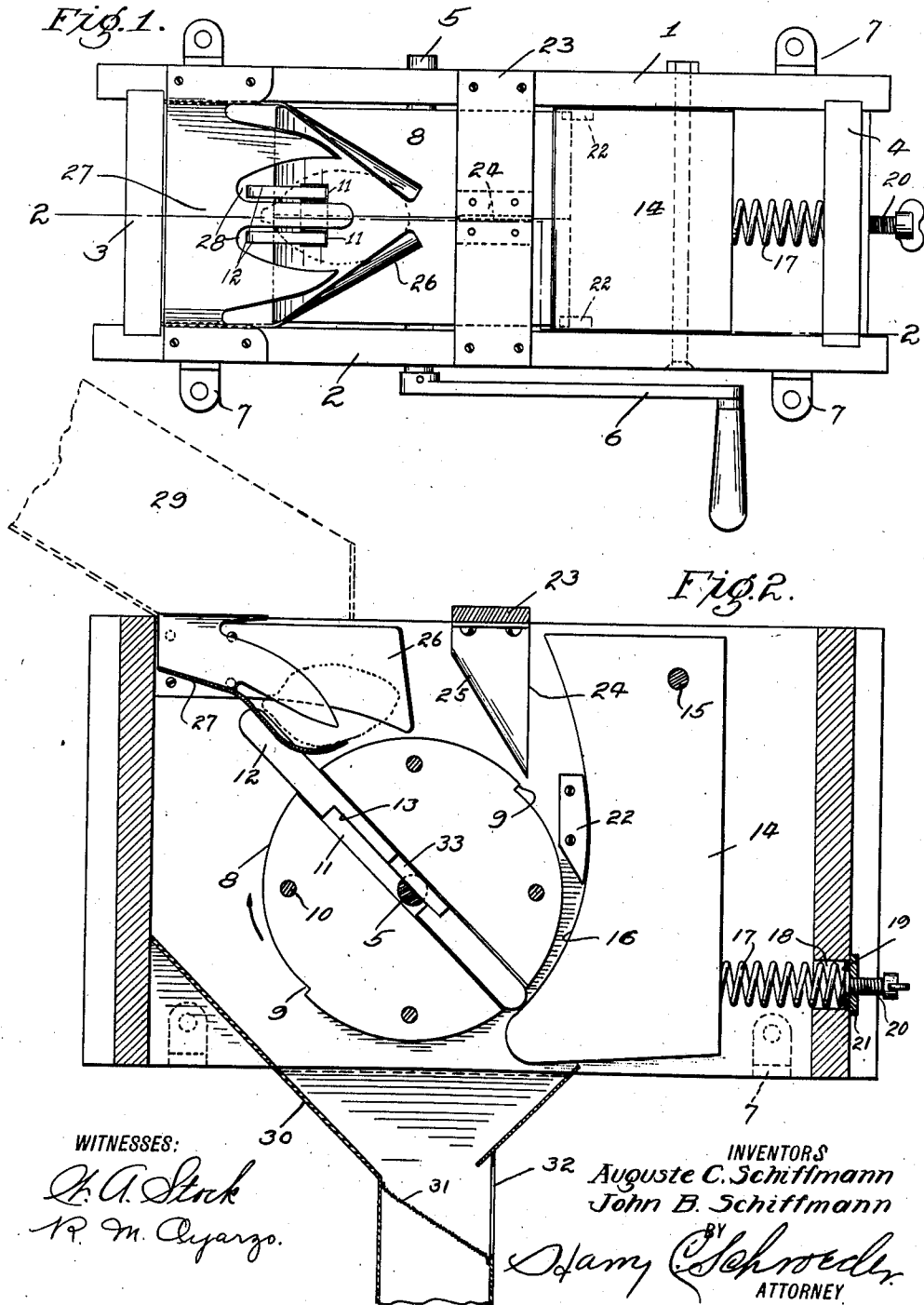


A. C. & J. B. SCHIFFMANN.
FRUIT PRESSER.
APPLICATION FILED AUG. 20, 1913.

1,104,937.

Patented July 28, 1914.



UNITED STATES PATENT OFFICE.

AUGUSTE C. SCHIFFMANN AND JOHN B. SCHIFFMANN, OF OAKLAND, CALIFORNIA.

FRUIT-PRESSER.

1,104,937.

Specification of Letters Patent.

Patented July 28, 1914.

Application filed August 20, 1913. Serial No. 785,775.

To all whom it may concern:

Be it known that we, AUGUSTE C. SCHIFFMANN and JOHN B. SCHIFFMANN, citizens of the United States, residing at Oakland, in the county of Alameda and State of California, have invented certain new and useful Improvements in Fruit-Pressers, of which the following is a specification.

This invention relates to fruit pressers and more particularly to a device for extracting the juice of citrus fruit.

The principal object of our invention is to construct an effective and simple device for continuously extracting the juice from large quantities of such fruit. On account of the simple construction of our invention the parts may be readily made of materials unaffected by fruit acids and made more accessible for cleansing purposes.

With these and other objects in view as hereinafter set forth our invention comprises certain new and novel combinations and arrangements of parts as herein described and illustrated in the following specification and drawing and as more particularly pointed out in the claims hereunto annexed.

In the drawings like character of reference denote the same parts throughout the several views and, Figure 1 is a view in plan of our improved machine and Fig. 2 is a view relatively along the line 2-2—Fig. 1.

Our device consists of a frame having the side plates 1 and 2, end plates 3 and 4, the parts being held together in any suitable manner such as by screws or bolts. Revolvably mounted in the side plates is a shaft 5, projecting through on one side and there provided with an operating handle 6. Suitable means as angle plates 7 are provided for attaching the device to a table or stand.

Keyed to shaft 5, on the inside of the frame, is a cylindrical block 8 of the same width as the frame and provided at diametrically opposite points with the notched out portions 9 extending across the face thereof. The block is made in two sections which are held together by bolts 10 and each half is provided with a groove 11 in which the member 12 is adapted to slide. These members have a length greater than the diameter of the block 8 and are cut half away as at 13. The shaft 5 is also cut away adjacent these members which allows them to move on a diametrical path.

In front of the cylinder a block 14 is piv-

otally mounted as at 15 and has an eccentric face 16 against which the protruding ends of members 12 are adapted to contact. This block is pressed toward the cylinder by a heavy compression spring 17. The latter is seated in a pocket 18 in the end plate 4 and bears against a washer 19 on the end of screw 20 which passes through a suitable metallic plate 21 attached to the end 4. A stop 22 is attached to each of the side plates, which limit the forward movement of 14 and prevent it contacting with cylinder 8.

Attached to the sides 1 and 2 and a little forward of the center of the cylinder is a bar 23 from which depends a knife 24. This knife has an angular cutting edge 25 and the point almost contacts with the periphery of the cylinder. Back of the latter are guide plates 26 attached to the side walls 1 and 2 and arranged to converge toward the knife 24. A curved plate 27 is attached to the top of walls 1 and 2 to prevent the fruit from falling behind 8 and hold the same until fed by the projecting end of member 12, slots 28 being provided for the passage of these members. A suitable hopper 29 is provided for feeding the fruit and a funnel 30 for collecting the juice and skins. The former passing through the inclined screen 31 while the latter is ejected through the side opening 32.

The operation of this device is as follows:—The fruit is fed through the chute 29 and falls on a plate 27 the converging members 26 preventing it from going farther. When the cylinder is rotated in the direction of the arrow the projecting ends of arms 12 pass through slits 28 back of the fruit and push it forward through the guides 26 against the knife 24. As the turning is continued the fruit is caught by the projection 9 and carried around into the decreasing space between the cylinder and block 14, thus gradually squeezing all the juice therefrom. At the same time the bars 12 contact with the eccentric face 16 and are forced inwardly, the opposite ends being correspondingly forced out ready to push forward the next piece of fruit. Flat springs 33 are provided in the grooves 11 which bear against the bars 12 holding them in frictional engagement with the walls.

Having thus described our machine it will be seen that we have provided an extremely simple and rugged device for the purpose

set forth and while we have shown the preferred embodiment of our invention it will of course be understood that changes may be made in form and detail of construction without departing from the spirit thereof.

What we claim as new and wish to cover by Letters Patent is:—

1. A device of the character described comprising a frame, a cylinder revolubly mounted therein, an eccentrically faced yielding block mounted in front of said cylinder, diametrically disposed rods slidably mounted in said cylinder having a length greater than the diameter of said cylinder, an angularly disposed cutting knife rigidly mounted over said cylinder and converging guide plates to direct the fruit on said knife.

2. A device of the character described comprising a frame, a revoluble cylinder mounted therein, an eccentrically faced block yieldably mounted in front of said cylinder, a cutting knife rigidly mounted over said cylinder guide plates to hold and to direct the fruit on said knife, slidable bars diametrically mounted in said cylinder, said bars having a length greater than the diameter of said cylinder, the projecting ends

being adapted to force the fruit through said guide plates and against said knife.

3. A fruit press of the character described comprising the combination with a frame, of a cylinder revolubly mounted therein, a block pivotally mounted in front of said cylinder, the face of said block being eccentric with said cylinder, spring means urging said block toward said cylinder, longitudinal notches in the face of said cylinder adapted to receive the fruit and carry it through the decreasing space between said cylinder and said block, diametrically disposed rods slidably mounted in said cylinder, said rods having a length greater than the diameter of the cylinder, a knife having an angular cutting edge disposed between said cylinder and said drum and converging guide plates adapted to direct the fruit on said knife.

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

AUGUSTE C. SCHIFFMANN.
JOHN B. SCHIFFMANN.

Witnesses:

W. A. STOCK,
F. P. SCHROEDER.