No. 734,774. PATENTED JULY 28, 1903.

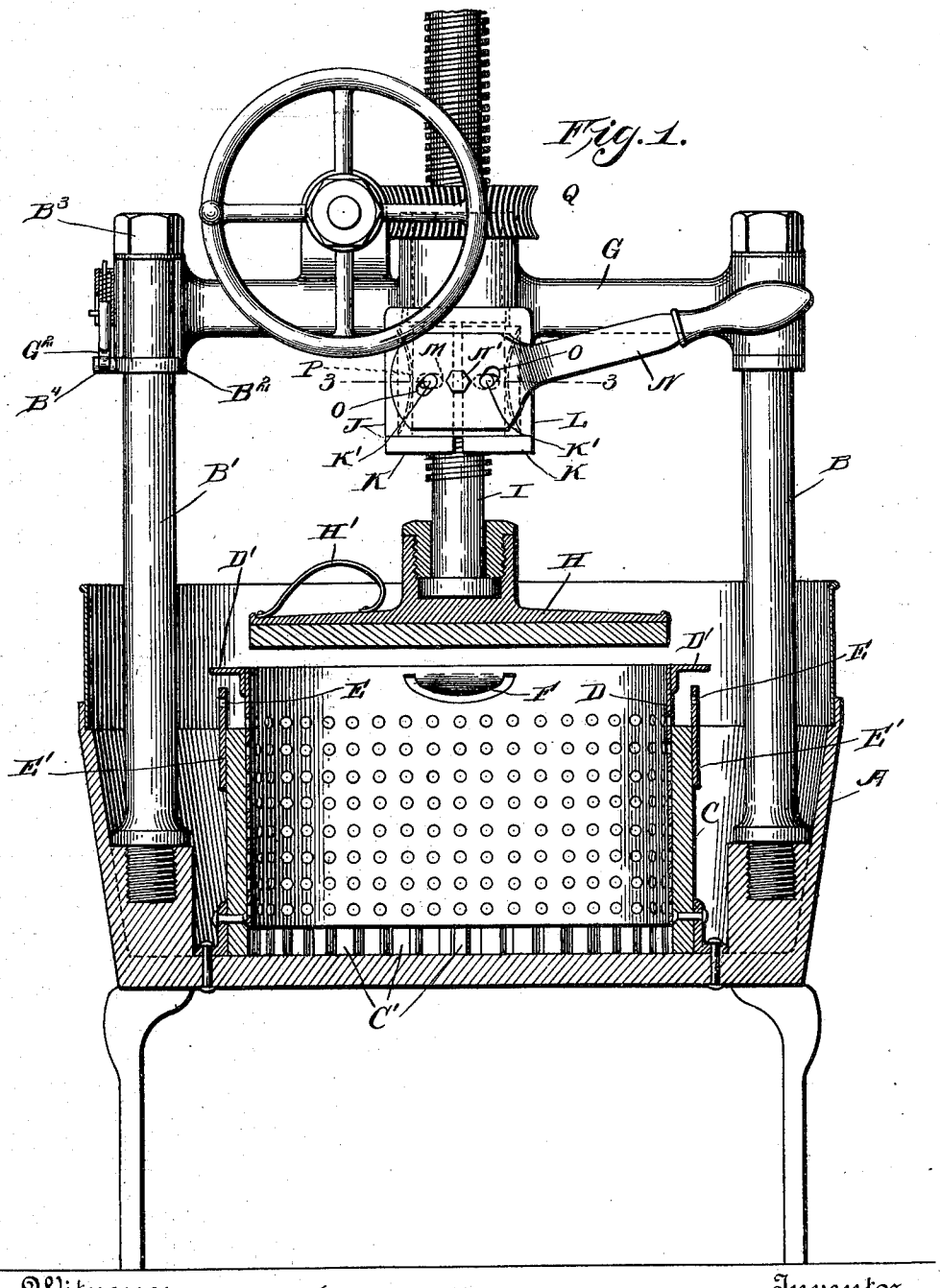
J. SZAFKA.

WINE PRESS.

APPLICATION FILED OCT. 27, 1902.

NO MODEL. 2 SHEETS—SHEET 1.

Fig. 1.



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NO MODEL. 2 SHEETS—SHEET 2.

Fig. 2.

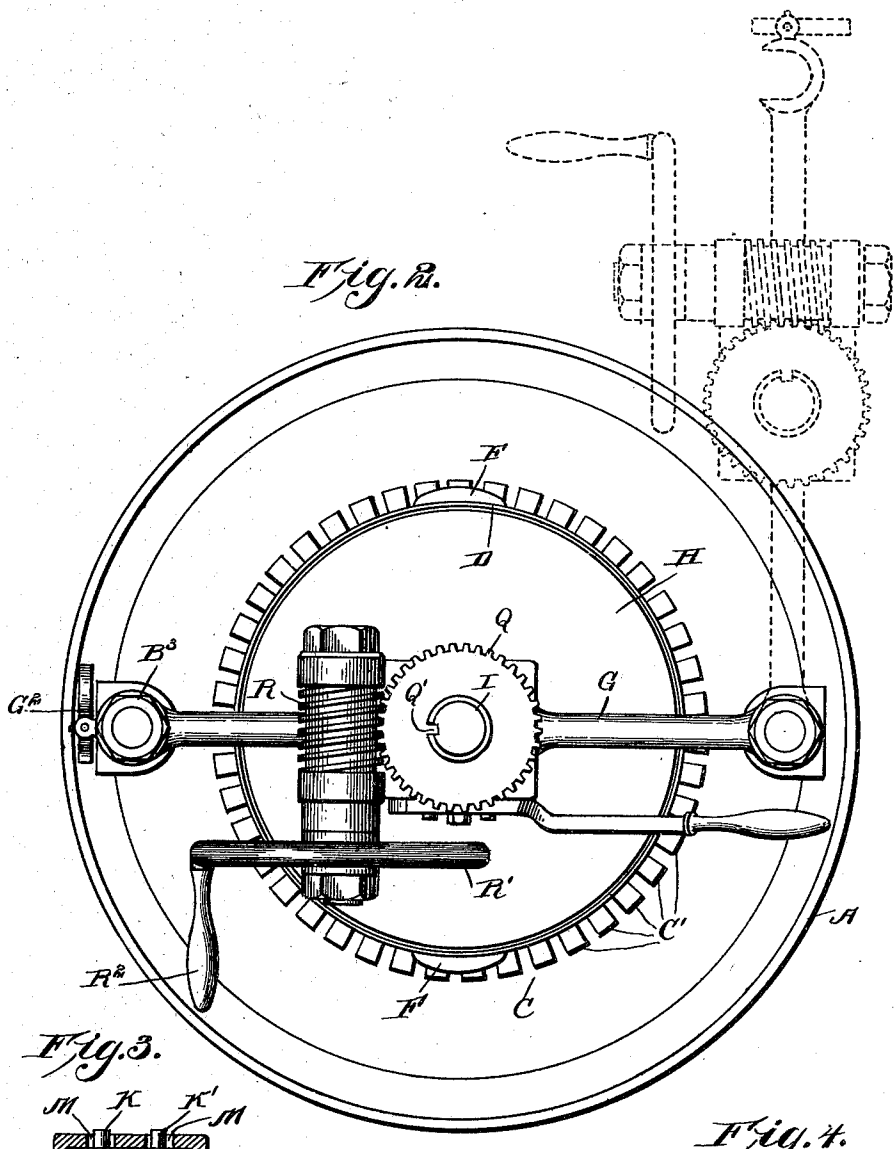


Fig. 3.

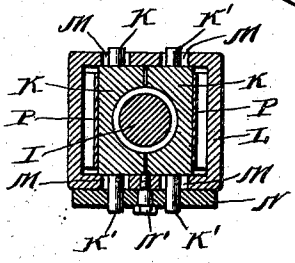
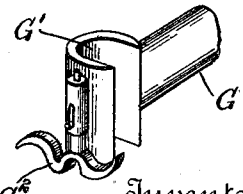


Fig. 4.



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No. 734,774. Patented July 28, 1903.

UNITED STATES PATENT OFFICE.

JOSEPH SZAFKA, OF PHILADELPHIA, PENNSYLVANIA.

WINE-PRESS.

SPECIFICATION forming part of Letters Patent No. 734,774, dated July 28, 1903.

Application filed October 27, 1902. Serial No. 129,034. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH SZAFKA, a citizen of the United States, residing at Philadelphia, county of Philadelphia, and State of Pennsylvania, have invented a certain new and useful Improvement in Wine-Presses, of which the following is a specification.

My invention relates to a new and useful improvement in wine-presses, and has for its object to provide a simple, efficient, and durable wine-press, in which a removable receiver is provided for the fruit and in which the plunger and operating parts of the press may be swung to one side, so as to allow the fruit-receiver to be inserted or removed.

With these ends in view this invention consists in the details of construction and combination of elements hereinafter set forth and then specifically designated by the claims.

In order that those skilled in the art to which this invention appertains may understand how to make and use the same, the construction and operation will now be described in detail, referring to the accompanying drawings, forming a part of this specification, in which—

Figure 1 is a vertical longitudinal section through the wine-press; Fig. 2, a plan view of the press, the operating parts being swung to one side in dotted lines; Fig. 3, a section on the line 3 3 of Fig. 1; Fig. 4, a perspective view of the front end of the cross-arm, showing the construction of the spring-latch.

A represents the tub, which may be supported in any suitable manner. Secured rigidly to and extending up from the tub upon opposite sides of the center are the standards B and B′, and secured in the center of the tub and extending upward therefrom is what I will hereinafter call the "jacket" C, which is composed of a number of staves C′, each separated from the other and arranged in a circle.

D is a perforated fruit-receiver, which is adapted to fit closely within the jacket C, and when fitted within the jacket the bottom of the fruit-receiver comes in contact with the bottom of the tub A, and the ears D′, extending outward from the receiver, are adapted to enter slots E, formed in the strips E′, extending upward from the jacket when the receiver is turned slightly.

F represents handles formed upon each side of the receiver for the purpose of inserting or removing the same.

G is a cross-arm pivoted at one end to the upper end of the standard B and the other end of the cross-arm G being provided with a socket G′, opening at the side, said socket when the arm is in its normal position adapted to engage the upper end of the standard B′ between the collar B^2 and nut B^3, and when swung to its normal position the spring-latch G^2, carried by the free end of the cross-arm G, is adapted to engage the pin B^4, extending outward from the collar B^2, and thus hold the cross-arm in its normal position.

H is the plunger swiveled upon the lower end of the screw-threaded rod I. This screw-threaded rod is threaded through a divided box J, carried by the cross-arm G, and this box J is composed of the halves K, which are threaded and adapted to engage the screw I when in their normal position. These halves K are held and guided within the casing L, formed with the cross-arm G, and each of the halves have pins K′ extending outward from each side, which pins extend through horizontal slots M, formed in the casing L, so as to guide the halves K in a horizontal direction.

N is a lever pivoted to the casing L at the point N′ upon one side of said casing, and this lever is provided with oblique slots O, through which the pins K′, upon one side of the box J, extend.

P represents springs interposed between the casing L and the halves K and serve to hold all of the parts in the box J in their normal position—that is, with the halves K engaging the screws I.

It will be seen by referring to Fig. 1 that if the lever N is pressed downward the oblique slots O will operate to spread the halves K and bring them out of engagement with the screw I.

Q is a worm-wheel journaled to the cross-arm G, and this worm-wheel is provided with a key Q′, which is adapted to slide in a vertical slot formed in the screw I.

R is a worm journaled in the cross-arm G and in mesh with the worm-wheel Q, and this worm R is connected with a hand-wheel R′, provided with a handle R^2 for the turning of the worm.

The operation of the machine is as follows: After the fruit has been placed in the receiver D and the receiver inserted within the jacket C the plunger H and the other operating parts are swung to their normal position, the catch G^2 automatically locking them in position, and then by revolving the hand-wheel R′ the screw R will rotate the worm-wheel Q, which in turn will rotate the screw I, and said screw by being threaded through the box J will force the plunger H downward and press the fruit, and after all the juice has been extracted from the fruit the plunger may be quickly raised by grasping the handle H′ and pressing downward upon the lever N, so as to separate the parts K, and then the screw I will slide up easily through the box J and worm-wheel Q, and when the plunger H is above the upper rim of the tub A by releasing the catch G^2 the cross-arm with the plunger and all other parts connected thereto may be swung to one side, as shown in dotted lines in Fig. 2, and then the receiver D may be lifted out of the jacket and the pulp disposed of.

In Fig. 1 I have shown the receiver partially raised from out of the jacket C.

Of course I do not wish to be limited to the exact construction here shown, as slight modifications could be made without departing from the spirit of my invention.

Having thus fully described my invention, what I claim as new and useful is—

1. In a wine-press, a tub, a framework extending upward from said tub, a jacket secured to said tub upon the interior, said jacket composed of a series of stays separated one from the other, a perforated removable receiver adapted to fit within said jacket, a cross-arm pivoted at one end to the framework, automatic means located at the opposite end of the cross-arm for locking the same in its normal position, a plunger, a screw-rod upon the lower end of which the plunger is swiveled, a divided boxing carried by the cross-arm through which the screw is threaded, means for separating the two parts of said boxing so as to disengage the same from the screw, springs for returning the two parts to their normal position, and means for rotating the screw so as to force the plunger downward, as and for the purpose specified.

2. In a wine-press, a tub, a perforated removable receiver adapted to be secured in the center of the tub, two standards secured to and arising from the tub, a cross-arm pivoted at one end to the upper end of one of the standards, an open-sided socket provided upon the opposite end of the cross-arm adapted to engage the opposite standard, a spring-latch carried by the free end of the cross-arm adapted to lock the arm in its normal position, a plunger, a screw, upon the lower end of which the plunger is swiveled, a divided boxing carried by the cross-arm through which the screw is threaded, springs adapted to hold the two parts of the divided boxing in engagement with the screws, pins extending outward from each side of the two parts of the divided boxing, a casing formed with the cross-arm in which the two parts are held, said casing provided with horizontal slots through which the pins extend, a lever pivoted upon the outside of the casing at a point coincident with the division of the two parts and in a horizontal line with the pins, said lever provided with oblique slots through which the pins upon that side extend, a worm-wheel splined upon the screw, a worm journaled upon the cross-arm and in mesh with the worm-wheel, and a hand-wheel for turning the worm, as specified.

In testimony whereof I have hereunto affixed my signature in the presence of two subscribing witnesses.

JOSEPH SZAFKA.

Witnesses:
H. B. HALLOCK,
L. W. MORRISON.