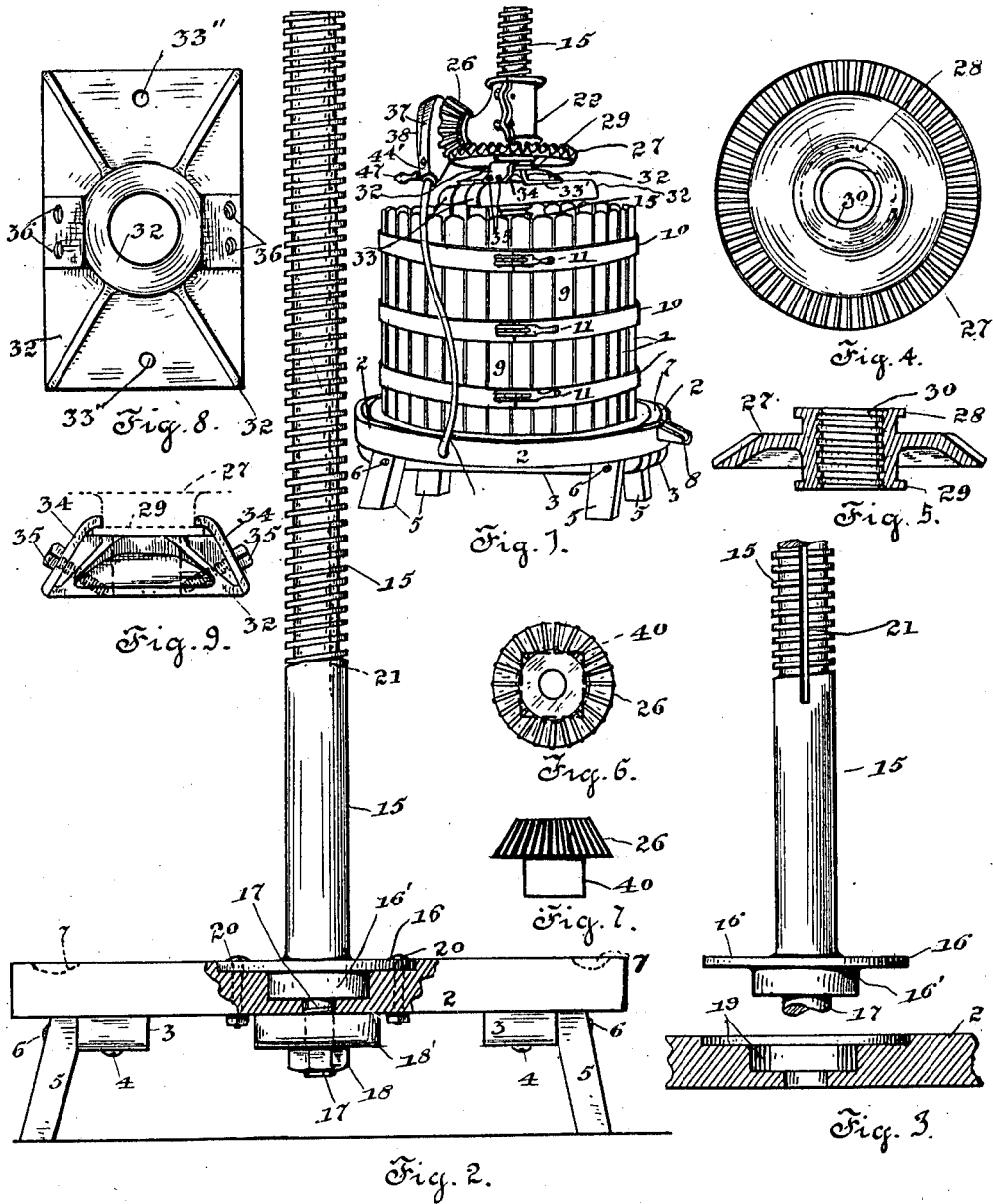


970,391.

Patented Sept. 13, 1910.

2 SHEETS—SHEET 1.



Witnesses:

W. C. Smith
B. G. Richards

Inventor:

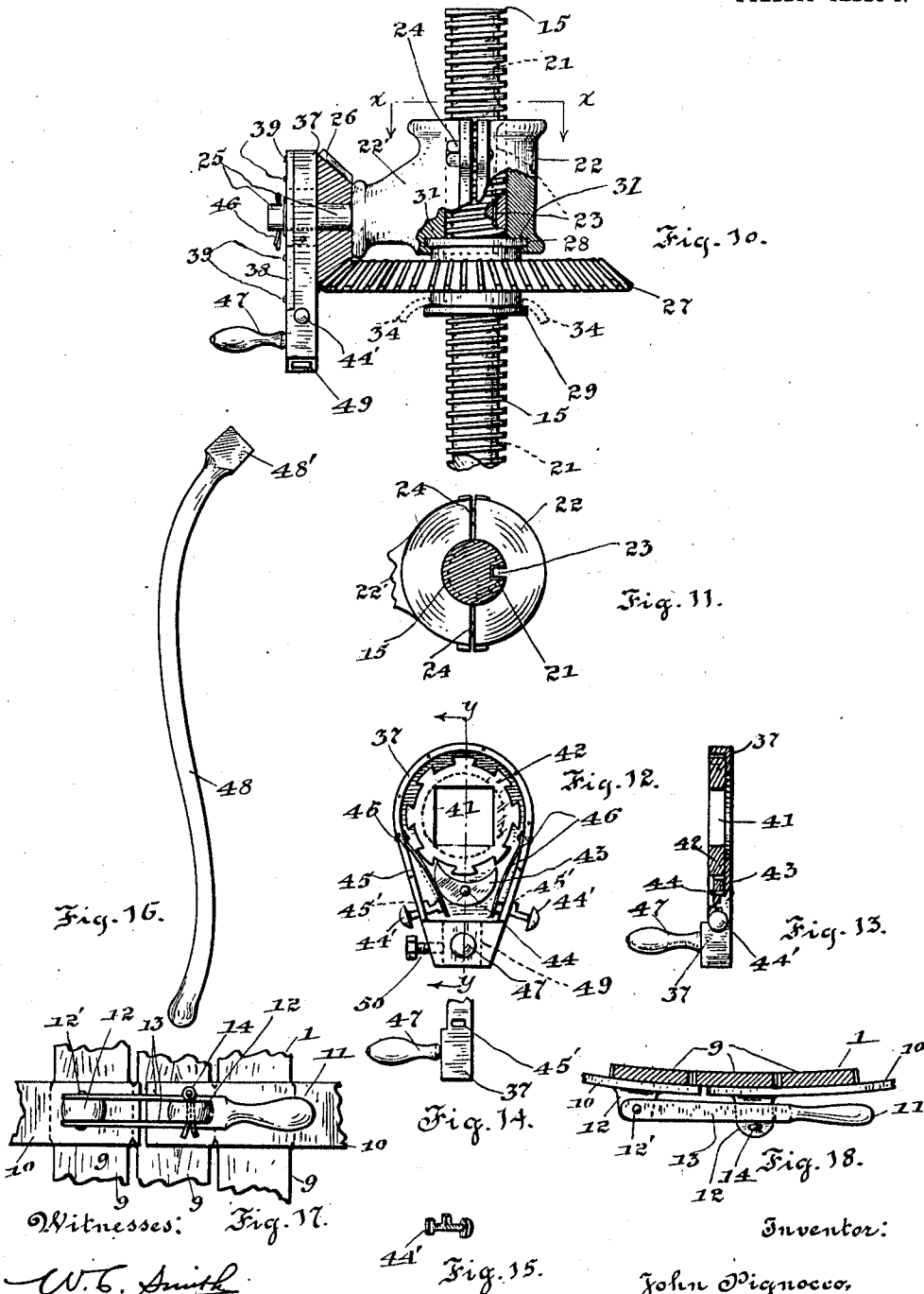
John Pignocco,
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his Attorney.

J. PIGNOCCO.
WINE PRESS.
APPLICATION FILED FEB. 28, 1910.

970,391.

Patented Sept. 13, 1910.

2 SHEETS—SHEET 2.



Witnesses:
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Fig. 15.

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UNITED STATES PATENT OFFICE.

JOHN PIGNOCCO, OF LA SALLE, ILLINOIS.

WINE-PRESS.

970,391.

Specification of Letters Patent. Patented Sept. 13, 1910.

Application filed February 28, 1910. Serial No. 546,345.

To all whom it may concern:

Be it known that I, JOHN PIGNOCCO, a citizen of the United States, and a resident of the city of La Salle, county of LaSalle, and State of Illinois, have invented certain new and useful Improvements in Wine-Presses, of which the following is a specification.

My invention relates to improvements in wine-presses of the manually operated class and has for its object the production of a machine of this character which shall be of simple construction and efficient in operation.

A further object of my invention is to provide means whereby the machine may be operated at a high speed for low pressures and at a low speed with correspondingly greater power for high pressures.

Other objects will appear hereinafter.

With these objects in view my invention consists in the novel construction and arrangement of parts which will be hereinafter fully described and particularly pointed out in the appended claims.

My invention will be more readily understood by reference to the accompanying drawings forming a part of this specification, and in which,

Figure 1 is a perspective view of my improved wine-press in its preferred form, Fig. 2 is a partial section and side elevation showing the base and central threaded shaft of the machine, Fig. 3 is a section of the central portion of the base and a side elevation of that portion of the central threaded shaft which is adapted to fit into said base, Fig. 4 is a detail top plan view, Fig. 5 is a detail vertical section, Fig. 6 is a detail side elevation, Fig. 7 is a detail side elevation taken at right angles to that of Fig. 6, Fig. 8 is a detail top plan view, Fig. 9 is a detail side elevation, Fig. 10 is a partial section and side elevation showing the assembling of the main operative parts of the machine, Fig. 11 is a horizontal section taken on line $x-x$ of Fig. 10, Fig. 12 is a detail side elevation showing the pawl and ratchet mechanism used in the device, Fig. 13 is a vertical section of said pawl and ratchet mechanism and the casing therefor taken on line $y-y$ of Fig. 12, Fig. 14 is a detail side elevation showing the lower portion of the pawl and ratchet casing, Fig. 15 is a perspective view of a key used in connection with the pawl and ratchet mechanism, Fig. 16 is a side

elevation of the operating lever used in the machine for high pressures, Fig. 17 is a fragmentary view showing the means for locking the bands which surround the barrel portion of the machine, and Fig. 18 is a detail horizontal section showing said locking means.

Referring now to the drawings 1 indicates the cylindrical barrel portion of the machine and 2 the circular base thereof on which said barrel rests, said base having members 3 secured thereto on the under side thereof by means of the screws 4, and to which members the lugs 5 are attached by means of the screws 6. The base 2 is provided with a circular groove 7 adjacent the periphery thereof, and leading radially from said groove is a spout 8 through which the wine may flow from the machine.

The barrel 1 comprises staves 9 which are surrounded and held in position by means of the band 10, the ends of the latter being secured by locking devices 11 to be described hereinafter. The staves 9 are reduced in width between the bands 10 so that the wine when pressed from the pomace in the barrel may flow outwardly and down the sides of the barrel into the groove 7. Each locking device 11 comprises perforated lugs 12 formed integral with the ends of the bands 10 and the bifurcated lever 13 pivoted to one of said lugs by means of the rivet bolt 12' and adapted to hook over the other lug, as shown in Figs. 17 and 18, the cotter-pin 14 being provided to hold said lever in position.

In order to compress the pomace for extracting the wine therefrom the following mechanism is provided: A threaded vertical shaft 15 is centrally located and provided with a bottom flange 16 having a reduced portion 16' the threaded extension 17 having the nut 18 screwed thereon which engages the washer 18'. The base 2 is provided with a recess 19 to receive the flange 16 which is secured in position by means of the bolts 20. A longitudinal groove 21 is provided in the threaded portion of the shaft 15 to prevent the longitudinally slidable member 22 from rotating thereon, a key 23 integral with the member 22 being fitted to slide in said groove. The member 22' is secured to the member 22 by means of the bolts 24 and is provided with a radial journal 25 on which the driving bevel pinion 26 is rotatably mounted. The hub of the driven bevel gear

27 is provided with flanges 28 and 29 and with an internal threaded portion 30 which is fitted to the threaded portions of the shaft 15. Grooves 31 are formed in the members 22 and 22' in which the flange 28 is adapted to rotate and thus to maintain the pinion 26 in mesh with the bevel gear 27. The rectangular metallic block 32 is mounted free to slide on the shaft 15 and is secured to the bars 33 by means of screws 33' passing through holes 33'', which bars in turn press downward on a follow-board (not shown). The block 32 is connected to the flange 29 of the bevel gear 27 by means of detachable lugs 34 which engage said flange and are secured to said block by means of the cap-screws 35 which are screwed into holes 36 provided in said block.

The pawl and ratchet mechanism is mounted in a casing 37 provided with a cover 38 which is secured thereto by means of the screws 39, one end of the pinion 26 being squared as at 40 to fit the square central opening 41 of the ratchet wheel 42. The pawl 43 is pivoted to the casing 37 by means of the pivot bolt 44 and is double-acting, as shown, springs 45 and 46 being provided to press against said pawl and to cause its actuation. The action of the pawl 43 is made selective by means of the keys 44' which are provided with projections, as shown, and inserted in slots 45' in the casing as shown in Fig. 14. When the keys are positioned as shown in Fig. 12 it is clear that the ratchet wheel will move in a clockwise direction, and to cause the reverse movement when the position of the keys are reversed. The keys are inserted in the horizontal slots 45' and then turned 90 degrees in which position they remain until again moved. The casing is retained in position on the pinion 46 by means of the cotter pin 46' and the same is rotated for low pressures by means of the handle 47. When a high pressure is required on the pomace a lever 48 having a squared portion 48' is used and inserted in the opening 49 provided therefor in said casing, a set-screw 50 being provided to hold said lever in position.

It will be noted that this machine is adapted by means of the handle and lever construction to obtain any pressure which is usually found necessary in a machine of this class, the two speeds thus provided facilitating this result.

While I have shown what I deem to be the preferable form of my improved wine-press I do not wish to be limited thereto as there might be various changes made in the details of construction, and the arrangement of parts, and hence I desire to avail myself of such variations and modifications as fairly fall within the spirit and scope of the appended claims.

Having described my invention what I claim as new and desire to secure by Letters Patent is:

1. In a press, the combination with a base, of a threaded vertical stationary shaft extending upwardly therefrom and provided with a longitudinal groove; a barrel mounted on said base; a bracket member mounted to move longitudinally of said shaft and having a key sliding in said groove; a bevel gear rotatably mounted on said bracket member and having a threaded connection with said shaft; a second bevel gear rotatably mounted in said bracket member and meshing with said first mentioned bevel gear; means for rotating said second bevel gear; and a follow board mounted to move longitudinally of said shaft and connected with said last mentioned bevel gear, substantially as described.

2. In a press, the combination with a base, of a threaded vertical stationary shaft extending upwardly therefrom and provided with a longitudinal groove; a barrel mounted on said base; a bracket member mounted to move longitudinally of said shaft and having a key sliding in said groove; a bevel gear rotatably mounted on said bracket member and having a threaded connection with said shaft; a second bevel gear rotatably mounted in said bracket member and meshing with said first mentioned bevel gear; means for rotating said second bevel gear; and a follow board mounted to move longitudinally of said shaft and swiveled to said last mentioned bevel gear, substantially as described.

3. In a press, the combination with a base, of a threaded vertical stationary shaft extending upwardly therefrom and provided with a longitudinal groove; a barrel mounted on said base; a bevel gear having a hub threaded on said shaft and extending above and below said gear, the said hub being provided with annular flanges at its upper and lower end; a split bracket member embracing said shaft and provided at its lower end with a groove engaging the flange on the upper end of said hub; a follow member provided with detachable lugs embracing the flange on the lower end of said hub; a second bevel gear rotatably mounted in said bracket member and meshing with said first mentioned bevel gear, and a pawl and ratchet connection for rotating said second bevel gear in either direction, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JOHN PIGNOCCO.

Witnesses:

RAIMONDO VALATIO,
ENRICO MARINI.