

(No Model.)

2 Sheets—Sheet 1.

J. P. PARKER.

PORTABLE SCREW PRESS.

No. 318,285.

Patented May 19, 1885.

Fig. 1.

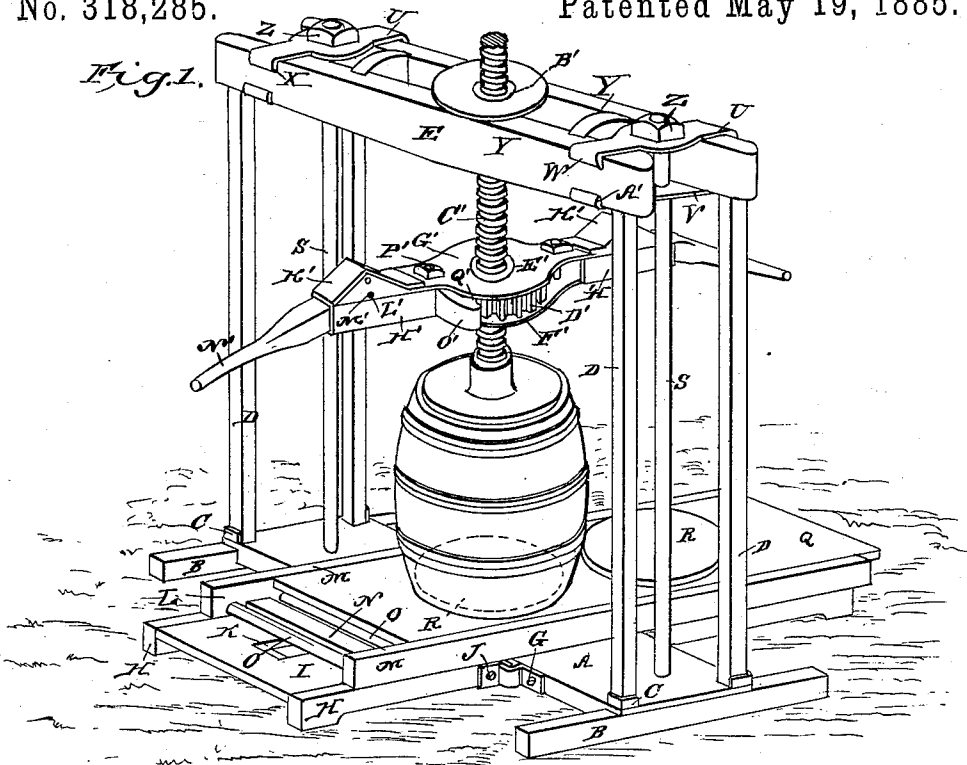


Fig. 2.

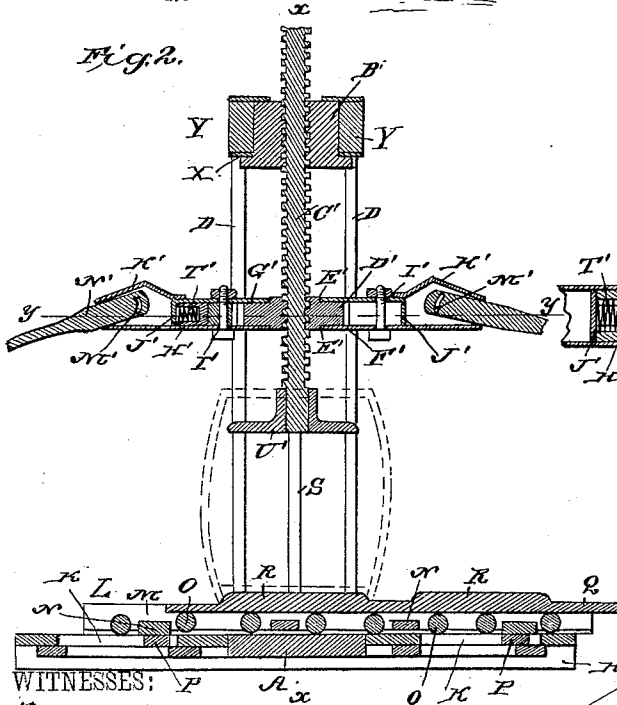
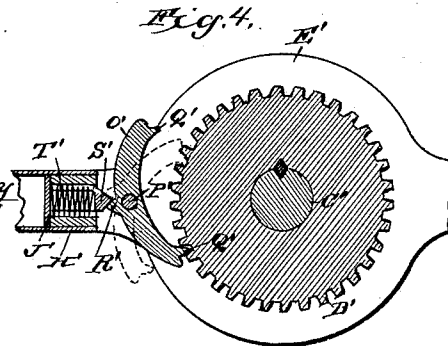


Fig. 4.



WITNESSES:

Wm. G. Dietrich
Witness

John P. Parker
INVENTOR.

Louis Ragger & Co.
ATTORNEYS.

(No Model.)

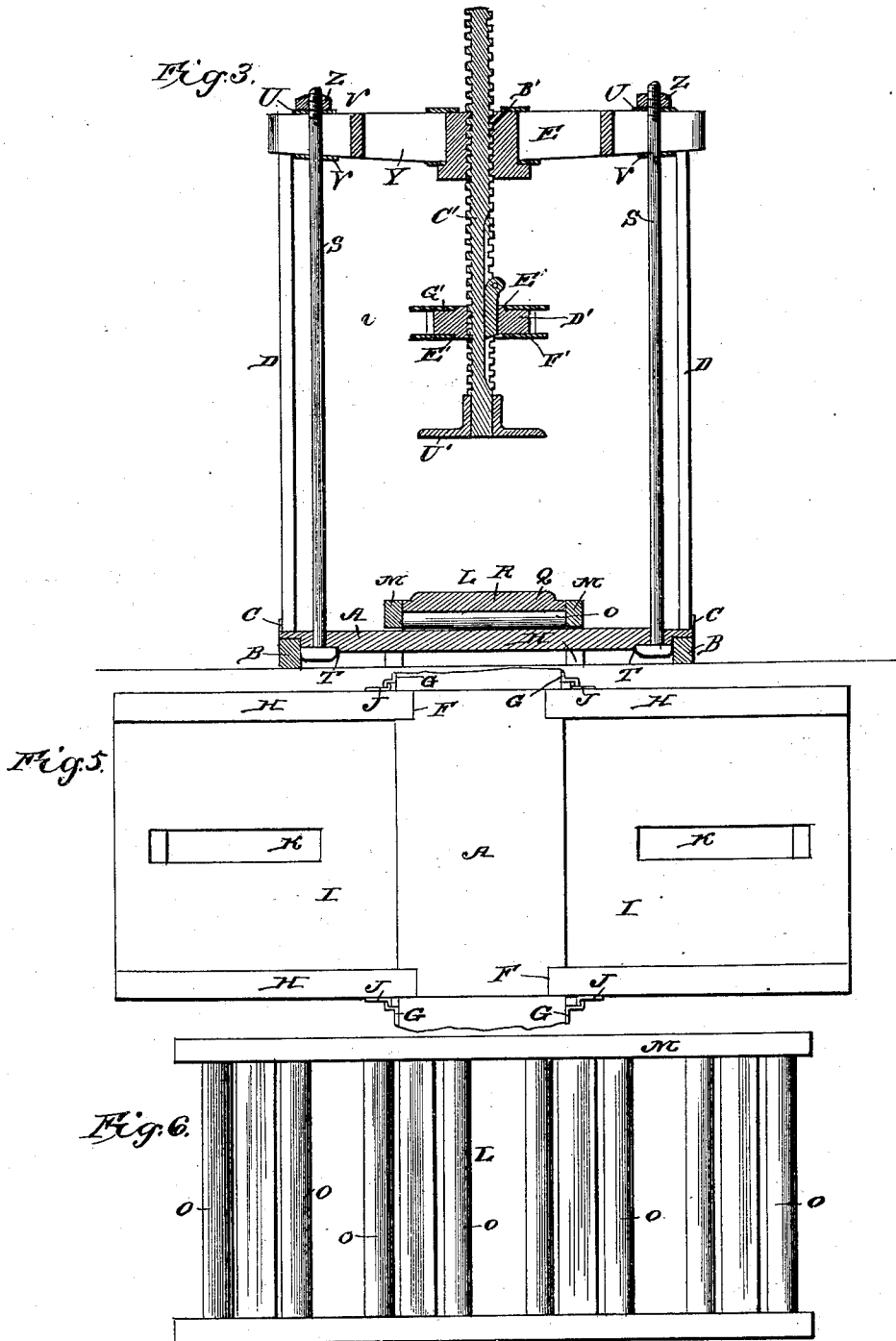
2 Sheets—Sheet 2

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WITNESSES:

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INVENTOR.

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UNITED STATES PATENT OFFICE.

JOHN PERCIAL PARKER, OF RIPLEY, OHIO.

PORTABLE SCREW-PRESS.

SPECIFICATION forming part of Letters Patent No. 318,285, dated May 19, 1885.

Application filed April 4, 1885. (No model.)

To all whom it may concern:

Be it known that I, JOHN P. PARKER, a citizen of the United States, and a resident of Ripley, in the county of Brown and State of Ohio, have invented certain new and useful Improvements in Portable Screw-Presses; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in art to
10 which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a perspective view of my improved portable screw-press. Fig. 2 is a longitudinal vertical section of the same. Fig. 3 is a vertical cross-section on line *xx*, Fig. 2. Fig. 4 is a horizontal section on line *yy*, Figs. 2 and 3. Fig. 5 is a top view of the bed of the
20 press; and Fig. 6 is a top view of the carriage.

Similar letters of reference indicate corresponding parts in all the figures.

My invention has relation to portable screw-presses more especially adapted to press tobacco into hogsheads and similar purposes; and it consists in the improved construction and combination of parts of the same, as hereinafter more fully described and claimed.

In the accompanying drawings, the letter A indicates the transverse base or platform of the press, which rests upon two longitudinal
30 sills, B B, at its ends, and which is provided upon the upper sides of its ends with angular flanges or castings C, which form abutments for the lower ends of the props D, which support the transverse top piece, E, of the press.

The side edges of the base have rectangular notches F, two at each side, and are provided with rectangularly-bent flanges or lips G,
40 which have their bent ends pointing toward each other.

The ends of the sills H of the bed-extensions I fit into the notches, and the sides of these sills are provided with rectangularly-bent lips
45 J, which may be held bearing against the inner sides of the lips G, retaining the bed-extensions in place with the ends of the sills resting in the notches.

The bed-extensions are formed with longitudinal slots K, and a carriage, L, consisting of two longitudinal side sills, M M, cross-pieces N, and rollers O, journaled between the cross-

pieces in the sills, travels upon the bed formed by the base and the bed-extensions, and is provided with two downwardly-projecting lugs
55 or stops, P P, one at each end, which slide in the slots and serve to stop the carriage, preventing it from traveling out too far at the ends of the bed.

A platform, Q, travels upon the rollers in the carriage, being retained laterally by the side sills of the carriage, and is provided with circular blocks R, upon which the ends of the hogsheads will fit.

Two rods, SS, having screw-threads at their upper ends pass through the ends of the base, having their lower heads resting in correspondingly-shaped recesses T, in the under side of the base, and the upper ends of these rods pass through transverse plates or castings U and V, fitting with their flanged ends
70 W and X over the outer ends of the beams Y Y of the top piece, E. After passing through the perforated transverse castings, the threaded ends of the rods S are provided with nuts Z, and the castings V, which clamp the beams from the under side, are formed at their inner edges with flanges A', against which the upper ends of the props D rest, so that by tightening the nuts upon the rods the ends of the
80 top piece are forced against the ends of the props, which are thus held in place by being clamped endwise between the top piece and the base.

The flanges at the ends of the castings U and V will serve to clamp the beams of the top piece together, preventing them from being spread by the pressure exerted against the said top piece, into the middle of which the female-threaded boss B', in which the screw fits, is
90 secured.

The screw C' is of the same construction as the screw for which Letters Patent No. 304,552 were granted to me on the 2d day of September, 1884, although it follows that any other
95 construction of screw may be used; but in place of the lever-nut, as shown in that patent, I now provide the screw with a notched or cogged nut, D', which is formed at its upper and lower side with reduced shoulders E',
100 upon which the central circular perforations of two plates, F' and G', fit and turn.

The lower plate, F', is formed with two laterally-projecting sockets, H', open at their

tops, and the upper plate is provided with two registering projections, I', having downwardly-projecting lips J', which close the inner ends of the sockets, and having upwardly-bulged tops K', which cover the tops of the sockets and have transverse perforations L' in their sides, through which pass bolts M', upon which the inner transversely-perforated ends of the levers N' are pivoted, the upwardly-bulged tops of the sockets allowing the said levers to depend in an inclined position.

A double pawl, O', is pivoted at its middle upon one of the bolts P', which connect the two plates, and is provided with two lugs, Q', at its ends, which are beveled upon their inner sides so as to be able to slip over the cogs of the nut D' when drawn over them with their inclined sides, while they may engage the cogs when forced against them with their outer sides.

The outer side of the double pawl is provided at the middle with a lip or rib, R', beveled upon both sides, and a bolt, S', having its outer end beveled, bears against either of these beveled sides of the rib, being itself beveled upon both sides, and is forced toward the pawl by a spring, T', bearing against its inner end, the bolt sliding in the inner portion of one of the sockets, and the spring bearing with its inner end against the lip J' of the socket. In this manner it will be seen that the pawl may be tilted so as to bring either end with its beveled lug to engage the notches of the nut and to slip over the cogs on the back stroke, so that by reciprocating the levers or rocking them the nut may be turned either way, screwing the screw up or down, as desired.

The follower U' is swiveled upon the lower end of the screw in any desired manner.

By having the traveling carriage and platform it will be seen that one hogshead may be filled while the other is being pressed, whereupon the pressed hogshead may be slid upon the carriage from under the press, removed, and another hogshead filled, while the last filled hogshead is being pressed, and so forth. It will also be seen that by unscrewing the nuts upon the upper ends of the vertical rods the top piece may be removed, as well as the props, and the platform, the carriage, and the bed-extensions may all be taken apart, thus making it possible to pack the press into a comparatively small space for transportation or storage.

By having the levers pivoted so as to swing downward in their sockets the levers may be within reach and convenient manipulation, as well when the nut and the plates are at their highest point as when they are at their lowest point.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

1. In a portable screw-press, the combination of the bed A, having the notches F and lips G at their side edges, and flanges C at their ends, the bed-extensions I, having sills H and lips J, the top piece having castings U and V, the vertical nutted rods, and the props D, as and for the purpose shown and set forth.

2. In a portable screw-press, the combination of the beams Y of the top piece, with the casings U and V, having flanges W and X, clamping the edges of the ends of the beams and having perforations for the passage of the vertical rods and flanges for the upper ends of the props, as and for the purpose shown and set forth.

3. In a screw-press, the combination of the bed-extensions having the longitudinal slots K, the carriage L, having the rollers and provided with the stops P, and the platform having the blocks for the reception of the ends of the hogsheads, as and for the purpose shown and set forth.

4. In a screw-press, the combination of the plates F' G', fitting upon the screws and forming sockets having upwardly-bulged upper sides and transverse perforations, with the levers having their inner ends pivoted upon bolts passing through the said perforations, as and for the purpose shown and set forth.

5. The combination of the screw having the cogged nut D', the plates F' and G', having the bolt P', the double pawl O', having the inwardly-beveled lugs Q', pivoted upon bolt P', and having the beveled rib R' and the spring-actuated bolt S', having its outer end beveled at both sides bearing against the beveled rib, as and for the purpose shown and set forth.

In testimony that I claim the foregoing as my own I have hereunto affixed my signature in presence of two witnesses.

JOHN PERCIAL PARKER.

Witnesses:

H. G. MADDOX,

T. W. KIRKPATRICK.