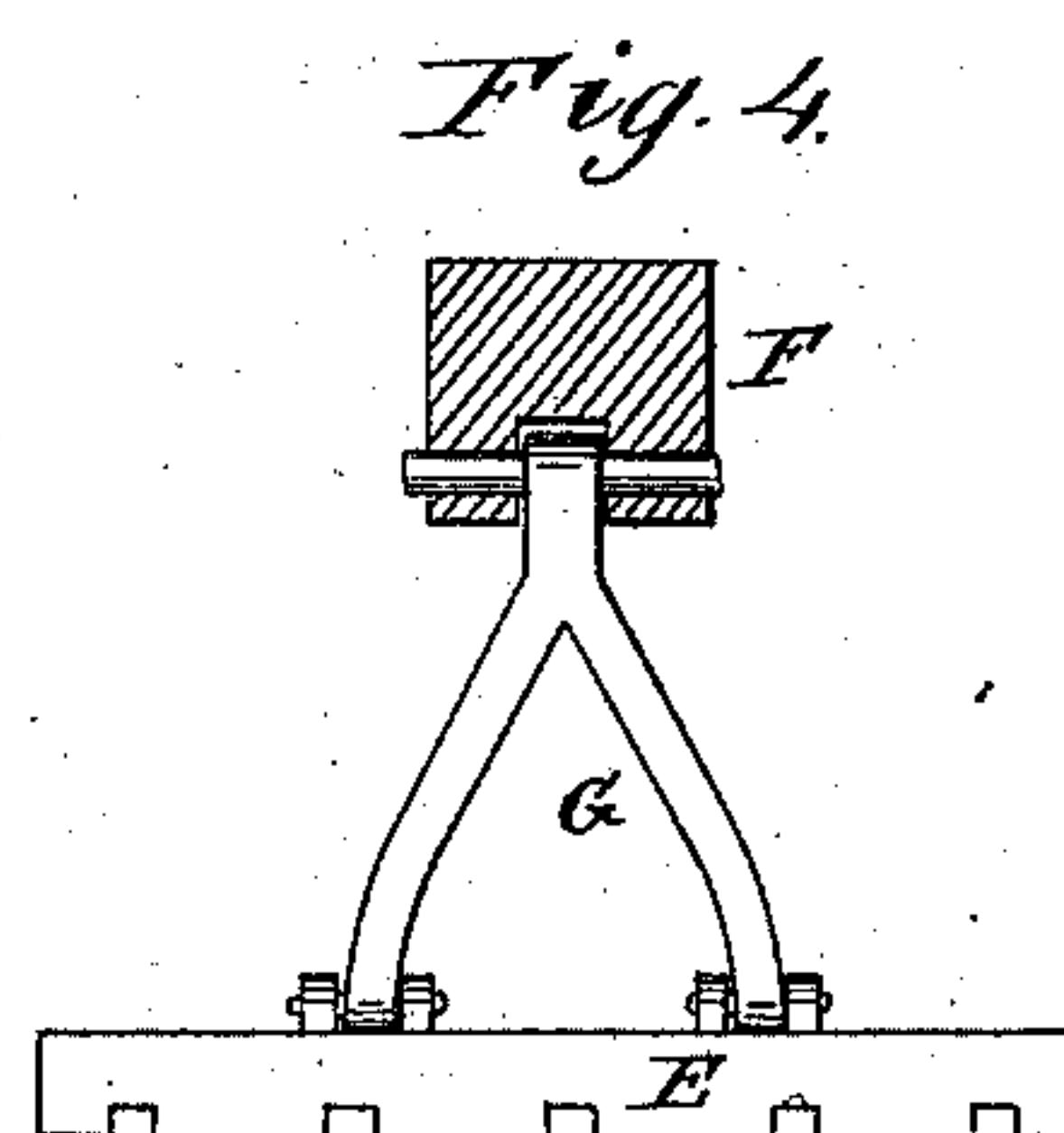


Patented Feb. 24, 1880.



ATTORNEYS.

UNITED STATES PATENT OFFICE.

TALBOT C. KEY, OF WHITE SULPHUR SPRINGS, GEORGIA.

PORTABLE HAY AND COTTON PRESS.

SPECIFICATION forming part of Letters Patent No. 224,924, dated February 24, 1880.

Application filed November 3, 1879.

To all whom it may concern :

Be it known that I, TALBOT CRAWFORD KEY, of White Sulphur Springs, in the county of Meriwether and State of Georgia, have invented a new and Improved Portable Hay and Cotton Press; and I do hereby declare that the following is a full, clear, and exact description of the same.

My invention is an improvement in the class of portable presses which are mounted on wheels, and thus adapted to be conveniently transported from one locality to another without requiring a separate vehicle therefor.

My invention consists in hinging the press-box to the beams of the truck, so that it can be laid down on its side for the purpose of transportation, &c., and in the means for securing said press-box in the vertical position when required for work.

The parts constituting my invention are hereinafter described in connection with others, forming a complete or operative press, reference being had to accompanying drawings, in which—

Figure 1 is a side view, and Fig. 2 a plan view. Fig. 3 is a vertical section on line *x x*, Fig. 2, and Fig. 4 is a detail sectional view of one of the followers and its attachments.

The oblong rectangular frame A is secured to the axles B B of transporting-wheels C, and constitutes the only connection between said axles.

The press-box D is mounted on the frame A, near one end thereof, and is open at top and bottom.

The followers E E' act from both directions simultaneously, one up and the other down. They are hinged to levers F F' by means of long bifurcated links G G, so that the followers adjust themselves in position in the press-box D as they approach and recede from each other.

The levers F F' are fulcrumed in a post, G', at that end of frame A which is nearest the press-box D, and extend forward, one, F, over, and the other, F', beneath the press-box, to a point near the other end of frame A, where they are connected by ropes H H' with a windlass, I.

The rope H of the upper lever, F, passes over a pulley, J, in the top of a slotted post, K, which forms part of a vertical supplementary frame, L, mounted on the main frame A, over one of the axles B.

The windlass may be operated by a band-wheel or pulley driven by any suitable power-machine; but in this instance I show it operated by gearing from a hand crank-shaft, M.

It will be seen that by rotating the crank-shaft in one direction the windlass will wind on or take up the ropes H H', and thus draw the levers F F' toward each other, so that the followers E E' press the cotton both from above and below; also, that by rotating the shaft M in the opposite direction the followers will recede from each other.

To prepare the press for operation, the operator steps upon the end of lower lever, F', and thus causes the windlass I to rotate, so that the levers are drawn apart as far as practicable, Fig. 1. The upper follower, E, is then tilted on its hinged link G, to enable it to clear the edge of the press-box D, as shown in Fig. 1. The press-box is then filled, the follower E swung back, and the windlass I rotated to cause the followers to apply the required pressure. This having been done the sides of the box D are opened by detaching bars *a* and doors *b*, and the cotton removed.

For the purpose of better adapting the press for transportation the press-box D is hinged at one side, *c*, to the frame A, and secured on the other side by detachable wedges O. By removing the latter the press-box may be turned on its hinges and laid on its side upon frame A; but in order to do this I first detach the levers F F' from the post G', and also remove the latter from the frame A.

What I claim is—

The press-box, hinged at one side, and the detachable wedges O, in combination with the wheeled frame A, as shown and described.

TALBOT CRAWFORD KEY.

Witnesses:

HENRY E. WARE,
W. B. FAVER.