

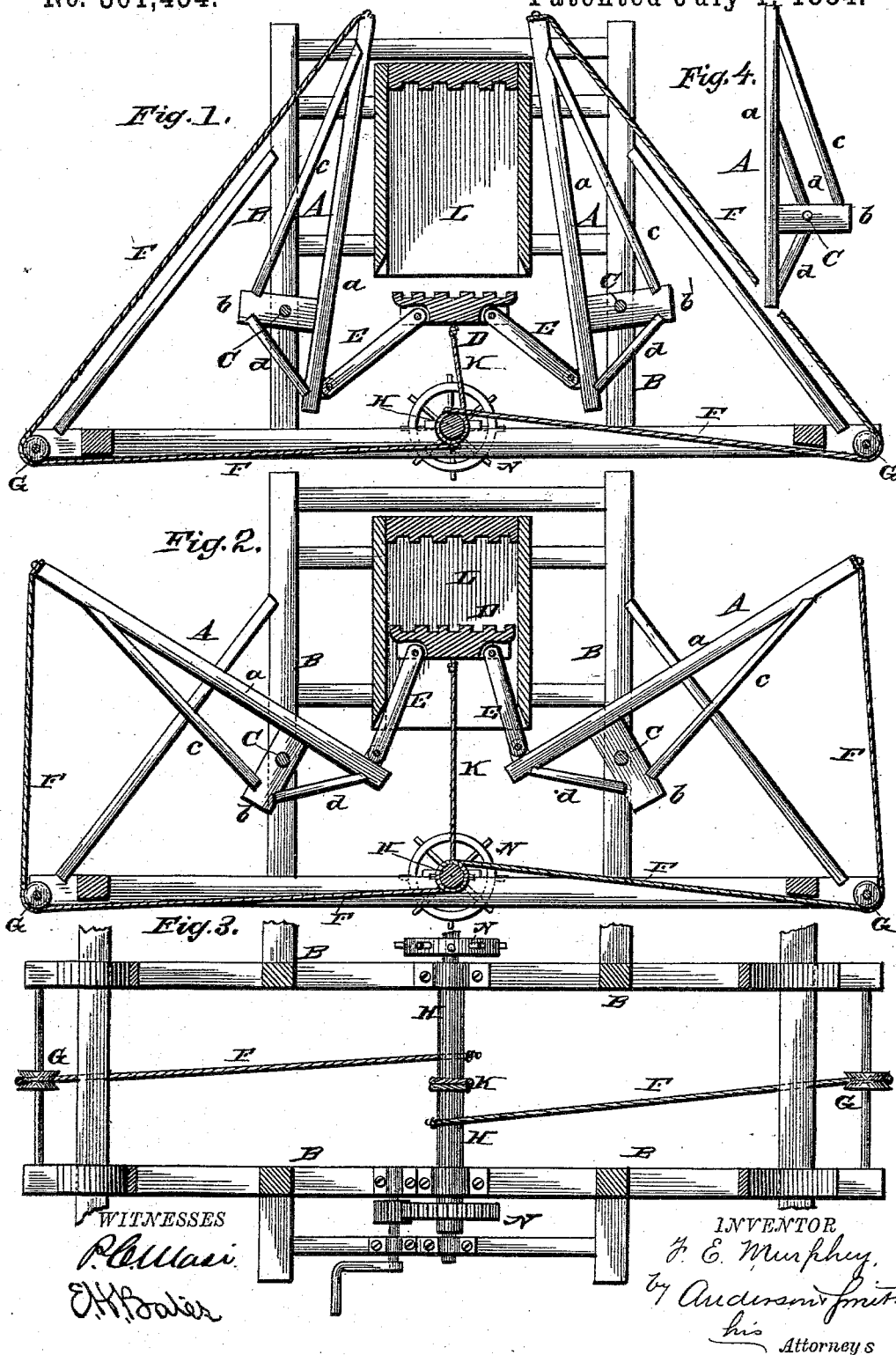
(No Model.)

F. E. MURPHEY.

COTTON PRESS.

No. 301,454.

Patented July 1, 1884.



UNITED STATES PATENT OFFICE.

FERDINAND E. MURPHEY, OF PINE HILL, ARKANSAS.

COTTON-PRESS.

SPECIFICATION forming part of Letters Patent No. 301,454, dated July 1, 1884.

Application filed April 21, 1884. (No model.)

To all whom it may concern:

Be it known that I, F. E. MURPHEY, a citizen of the United States, residing at Pine Hill, in the county of Ashley and State of Arkansas, have invented certain new and useful Improvements in Cotton-Presses; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

Figures 1 and 2 of the drawings are vertical sectional views of my device. Fig. 3 is a longitudinal sectional view of the same. Fig. 4 is a detail view.

This invention has relation to cotton-presses; and it consists in the construction and novel arrangement of devices, as hereinafter set forth, and pointed out in the appended claims.

The object of this invention is to provide a cotton-press where the follower is operated by upward pressure, its lever being so arranged that said follower can be drawn down by rope or chain and shaft.

In the accompanying drawings, the letter A designates the levers, which work between guide-posts B, turning on strong pivots C.

D represents the follower-block, and arms E, engaging said block underneath, are pivoted to the lower ends of the levers A.

F F indicate ropes, which are attached to the ends of the long arms of the levers A, and thence extend downward and outward to and around the pulleys G G to the shaft H, to which said ropes are connected. To the same shaft extends downward from the follower D a rope, K, which is also operated by said shaft, to cause the follower to descend. The rope K is wound reversely on the shaft, so that it will be paid out as the ropes F are wound up, and will be wound up as the ropes F are paid out.

It will be observed that the top of the presser-block or follower, when in its lower position, is about on a level with the pivots

or fulcrums of the levers A. When the levers are pulled downward by the ropes F into horizontal position, the arms E rise and at the same time assume the vertical position, forcing the follower upward in the press-box L, to compress the cotton. Each lever A consists of a bar, *a*, a fulcrum bearing-block, *b*, at right angles thereto, and the braces *c d*. The fulcrum-pivot extends through the bearing-block *b* in proper position to cause the lever-bar *a* to rise upward when turned sufficiently to carry the arm E well up into the cotton-box. The braces *c* serve to strengthen these angle-levers, and in order to give them solidity should extend from the pivoted points, as shown.

Pulleys or band-wheels N are secured to the shaft H. In this press the form of the operating-levers is such that, with the shortest pinch or distance from the fulcrum or point of pressure, sufficient rise is obtained to press cotton into bales. The pulleys over which the ropes pass which operate the levers are so placed that the movements of the levers will be free, and the operating-shaft is centrally arranged, as shown, so that equal force will be brought to bear on said levers.

Having described this invention, what I claim, and desire to secure by Letters Patent, is—

1. In a cotton-press, the combination, with a rising follower or press-block and its under arms, E, of the angle-levers A, pivoted to said arms, the center winding-roller under the follower, the guide-pulley, the lever-ropes F, and the follower-rope K, substantially as specified.

2. In the cotton-press, the combination, with the follower and its under arms, of the levers consisting each of a bar, *a*, a bearing-block, *b*, at right angles thereto, and braces *c d*, substantially as specified.

In testimony whereof I affix my signature in presence of two witnesses.

FERDINAND E. MURPHEY.

Witnesses:

F. M. GILS,
J. T. MURPHEY.