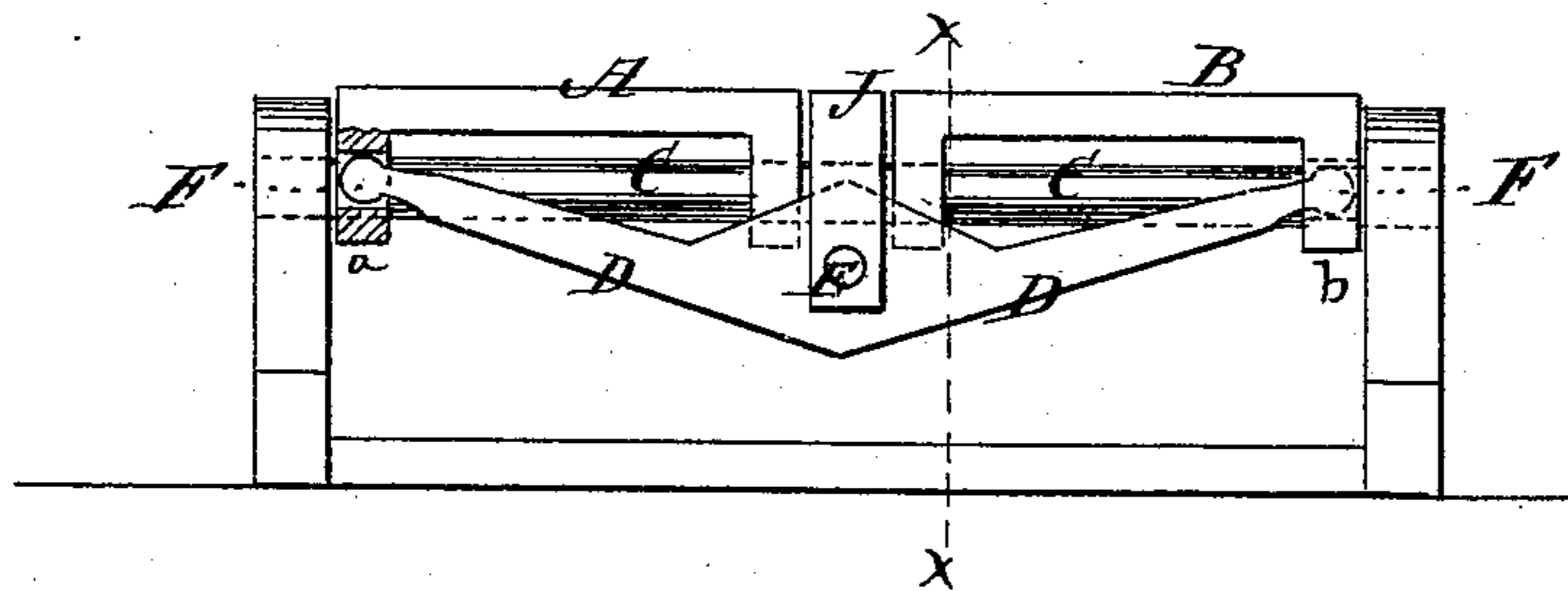


J. LEE.  
Treadles.

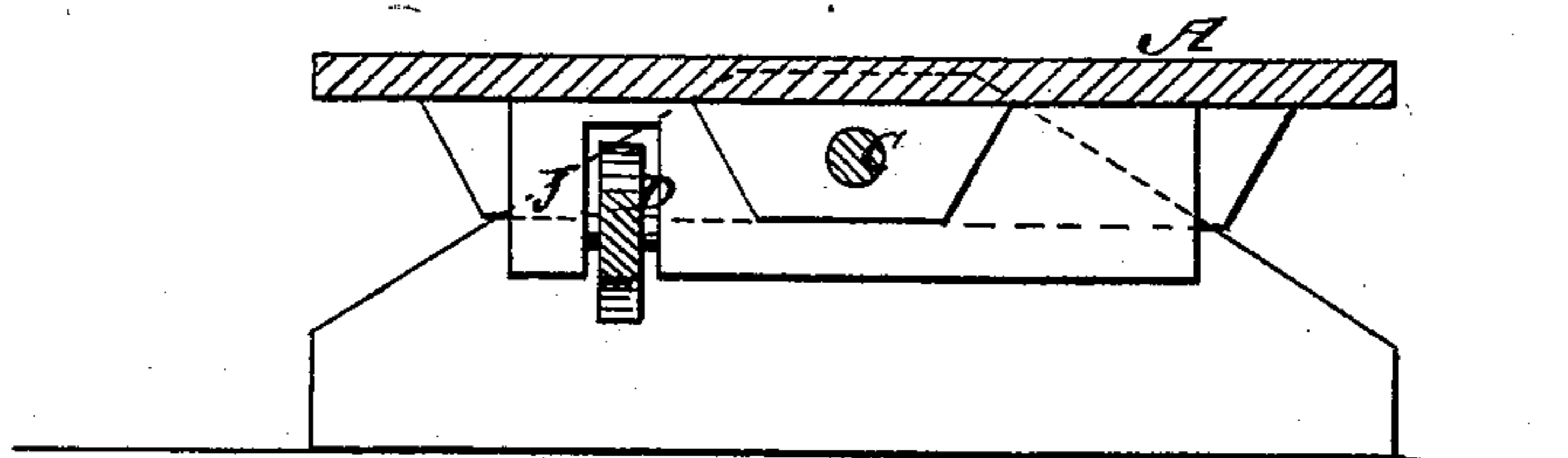
No. 152,131.

Patented June 16, 1874.

*Fig. 1*



*Fig. 2*



WITNESSES:

*E. Wolff*  
*Chiquet*

INVENTOR:

BY

*J. Lee*  
*Mumford*  
ATTORNEYS.

# UNITED STATES PATENT OFFICE.

JOSEPH LEE, OF WEST CHESTER, PENNSYLVANIA.

## IMPROVEMENT IN TREADLES.

Specification forming part of Letters Patent No. **152,131**, dated June 16, 1874; application filed April 18, 1874.

*To all whom it may concern:*

Be it known that I, JOSEPH LEE, of West Chester, Chester county, Pennsylvania, have invented a new and Improved Sewing-Machine Treadle, of which the following is a specification:

The invention will first be fully described, and then pointed out in the claim.

Figure 1 is a front elevation of my improved treadle; and Fig. 2 is a section on the line *x*, Fig. 1.

Similar letters of reference indicate corresponding parts.

A and B represent the two treadles arranged side by side, and mounted on the shaft C, so as to turn loosely on it. D is a rock-lever of peculiar shape, pivoted at its middle on a pivot, E, in the center-piece J, which separates the two treadles, the rock-lever being parallel with the shaft C, but nearly at one end of the treadles. The arms of the rock-lever are formed on an obtuse angle, and extend from the pivot to the opposite sides of the treadles, respectively, each being connected by a kind of ball-and-socket joint, F, with a flange on the under side of the treadle.

By the angular arrangement of the arms D the outer ends rise sufficiently above the inner

ends to allow the inner portion to fall when the treadles go down far enough to allow the treadles to fall to the extent which is required without striking the arms.

By this simple arrangement the walking-motion treadle is rendered practical in a cheaper construction than any heretofore made.

I am aware that a centrally-pivoted rock-lever has been operated alternately by two treadles, pivoted at the heel or resting upon a spring at that point; but mine are pivoted at the center, and the lever at its ends in the flanges *a b* of treadles. In those cases the toes alternately operate the crank-rod, while in mine the heel or toe may either be employed; moreover, they use reacting springs, with which I am enabled to dispense altogether.

Having thus described my invention, what I claim is—

The combination of the treadles A B, having flanges *a b*, and centrally pivoted on the same shaft C with centrally-fulcrumed lever D, whose ends slide in sockets of the flanges *a b*, as and for the purpose described.

JOSEPH LEE.

Witnesses:

S. ALPHONSO KIRK,  
WM. K. THORP.