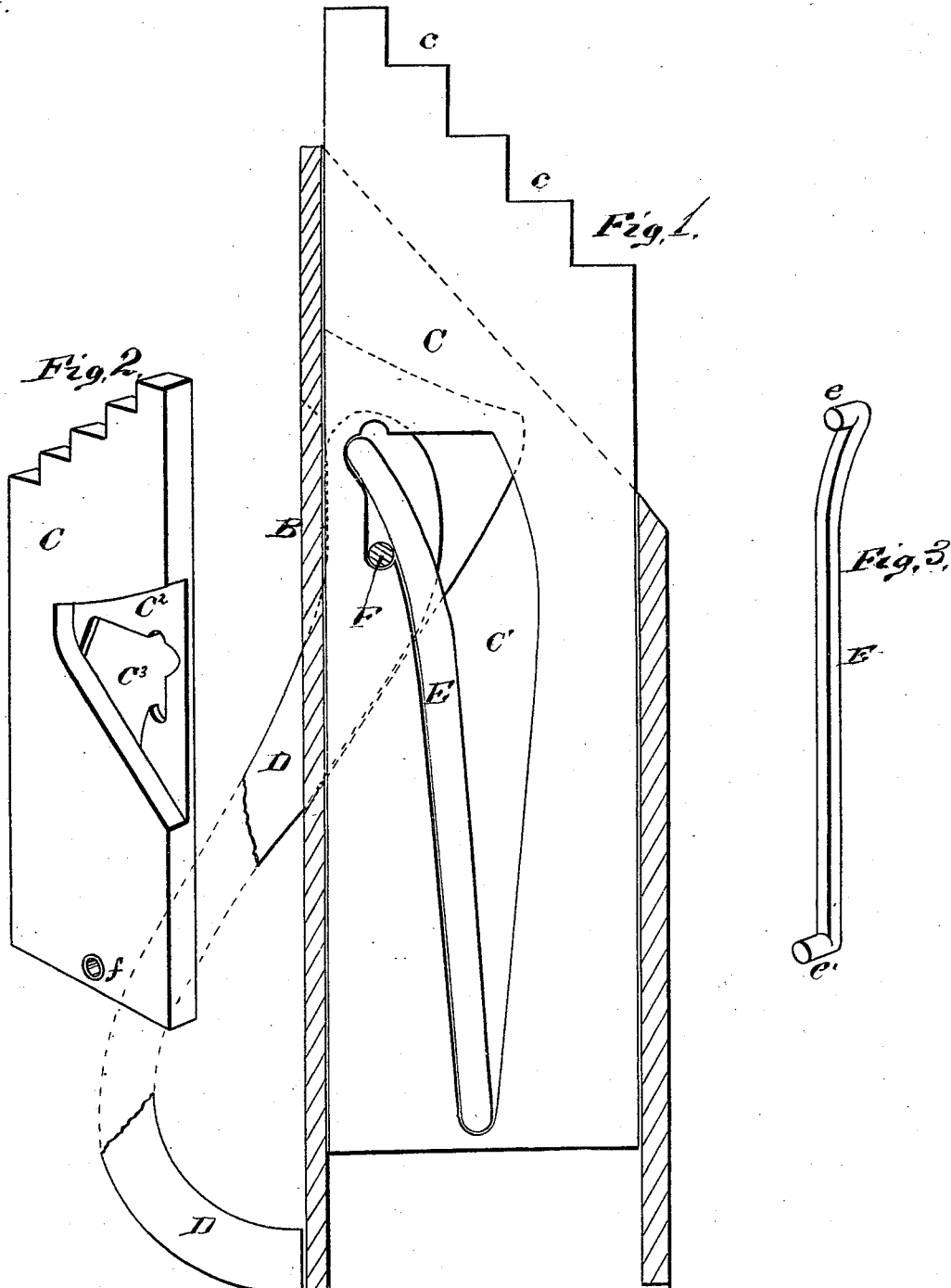


O. A. EDGERTON.

LIFTING-JACK.

No. 184,850.

Patented Nov. 28, 1876.



WITNESSES  
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# UNITED STATES PATENT OFFICE.

OZRO A. EDGERTON, OF MORRISVILLE, VERMONT.

## IMPROVEMENT IN LIFTING-JACKS.

Specification forming part of Letters Patent No. 184,850, dated November 28, 1876; application filed October 28, 1876.

*To all whom it may concern:*

Be it known that I, OZRO A. EDGERTON, of Morrisville, in the county of Lamoille and State of Vermont, have invented a new and valuable Improvement in Lifting-Jacks; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a longitudinal section of my lifting-jack, and Fig. 2 is a perspective view of my jack proper. Fig. 3 is a detail view of the same.

This invention relates to lifting-jacks for carriages and wagons; and it consists in combining with a pivoted handle and sliding jack an oscillating connecting-bar, which operates to diminish friction in raising said jack, and also to sustain the same firmly in an elevated position.

In the annexed drawing, A designates a bed-piece or bottom-block, on which is secured an upright casing, B, within which casing is a loose supporting-slide or jack proper, C. Said slide or jack is provided on top with a succession of steps, *e e*, adapting the same to be used with axles of various heights above the ground, and it receives vertical reciprocatory motion from a lever-handle, D, which is pivoted within said casing B, its long arm being outward. The end of the short inner arm of said lever-handle is connected to the lower part of slide C on the opposite side thereof by a bar or connecting-rod, E, which is pivotally attached at both ends. Said rod is straight, except near its upper end, where it curves slightly toward the pivot of said lever-handle, and the said straight part vibrates backward and forward (when said lever-handle is raised or lowered) in a long narrow downwardly-tapering recess, C<sup>1</sup>, of said slide or jack proper. Said slide or jack is also recessed at C<sup>2</sup>, on the opposite side thereof, to allow the upward and downward play of lever-handle D. Said recesses are connected at C<sup>3</sup>, forming an irregular opening through said slide, which allows the backward and forward motion of the upper end of bar or con-

necting-rod E, and also allows said slide to move upward and downward without being incommoded by the pivot-pin F of said lever-handle. Said pin extends across casing A from side to side thereof. The attachment of bar or connecting-rod E is effected by means of cylindrical studs or lugs *e e'*, which are made solid therewith, and enter cylindrical recesses *f* in said slide and lever-handle. The recess *f* in said slide is shown in Fig. 2. The construction of said bar or connecting-rod is shown in Fig. 3.

When the outer end of lever-handle D is lowered, the inner end necessarily rises, transmitting upward motion, through bar E, to slide or jack C. The doubly-pivotal attachment of said rod allows said slide to be forced directly upward, with but a very slight degree of friction.

When the upper attachment of said bar or rod E reaches or passes beyond a point above the pivot of lever-handle D, slide or jack C is locked, so as to resist any downward force or weight; but when the outer end of said lever-handle is raised, so as to cause said point of attachment to pass forward beyond a vertical line drawn through said pivotal point of said lever-handle, a slight pressure on the top of said slide or jack will suffice to depress it. The same result will be effected by simply continuing to raise said lever-handle.

The operation of my lifting-jack, in its application to vehicles, will be obvious from the description above given.

What I claim as new, and desire to secure by Letters Patent, is—

1. In a wagon-jack, the supporting-slide C, provided with recesses C<sup>1</sup> C<sup>2</sup>, and opening C<sup>3</sup>, substantially as and for the purpose set forth.
2. The combination of slide or jack C, having recesses C<sup>1</sup> C<sup>2</sup>, and opening C<sup>3</sup>, with lever-handle D, and connecting-bar E, substantially as set forth.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

OZRO A. EDGERTON.

Witnesses:

ORLO CADY,  
A. M. BURKE.