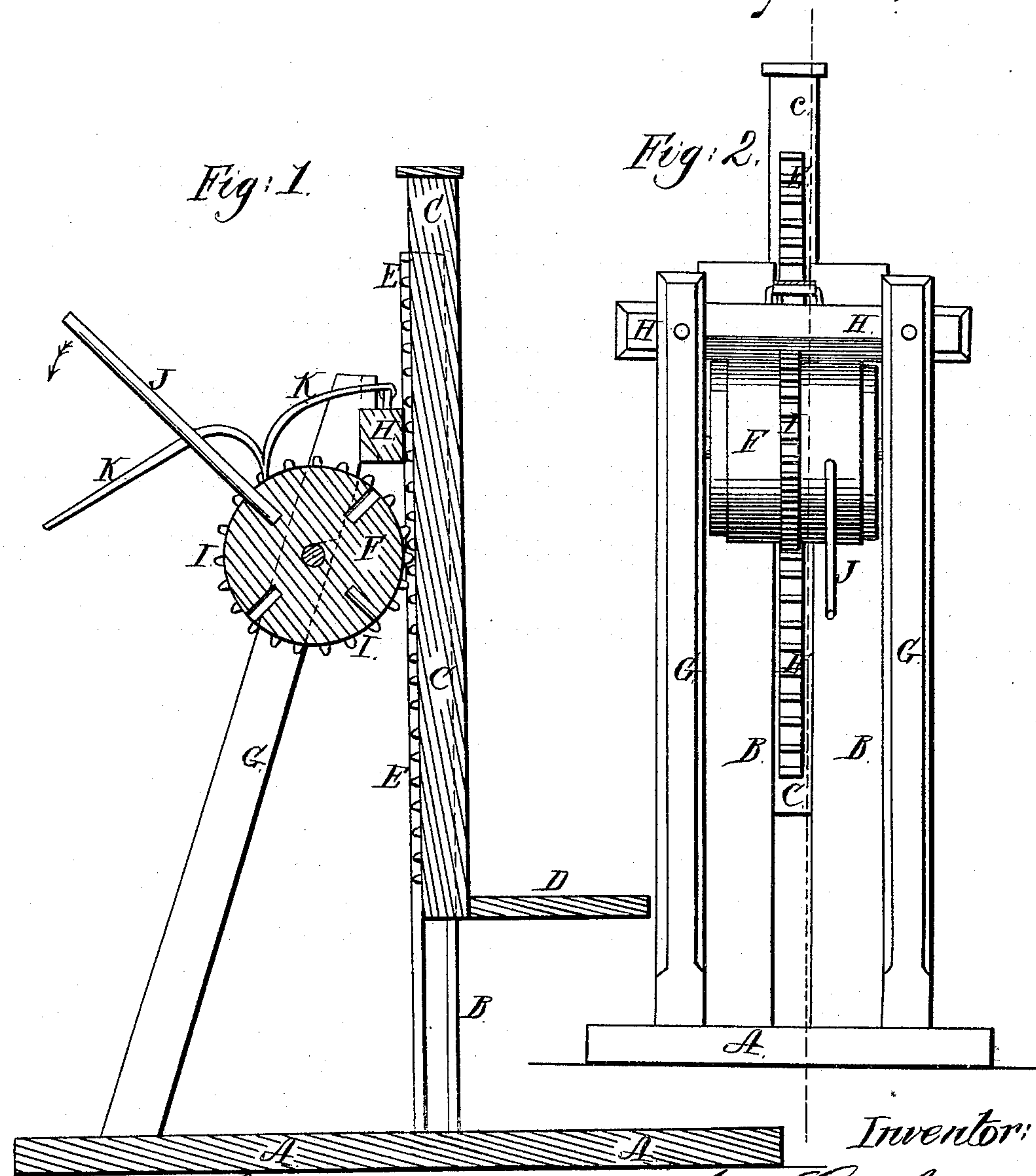


W.L. Jones,
Lifting Jack,
Nº 63,526, Patented Apr. 2, 1867.



Inventor:
W.L. Jones
Witnesses: Jas A. Service Per Messrs C. & G. Atty.

United States Patent Office.

WILSON L. JONES, OF BALDWIN CITY, KANSAS.

Letters Patent No. 63,526, dated April 2, 1867.

IMPROVEMENT IN LIFTING APPARATUS.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, WILSON L. JONES, of Baldwin City, Douglas county, State of Kansas, have invented a new and useful Improvement in Lifting Apparatus; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing, forming part of this specification, in which—

Figure 1 is a vertical section of my improved lifting apparatus, taken through the line *x x*, fig. 2.

Figure 2 is a rear view of the same.

Similar letters of reference indicate like parts.

My invention has for its object to furnish an improved lifting apparatus, by means of which heavy weights or burdens may be lifted readily and conveniently; and it consists, first, in the combination of a platform, upright beam, and rack with each other, with the upright posts of the frame of the machine, and with the lever-wheel; and, second, in the combination of the lever or spring and lever-wheel with each other, and with the rack and frame of the machine, as hereinafter more fully set forth.

A is the platform or foundation of the machine. Upon this foundation or platform are erected two upright posts, B, of a height depending upon the use to which the machine is to be applied. For raising wagons, to grease their axles, or for loading wagons, the posts need be but a few feet long; but when the machine is to be used for raising stone in erecting buildings, and for similar purposes, the posts B require to be much longer. The sides of these posts that are towards each other are grooved longitudinally, as shown in the drawings. C is a beam, upon the sides of which are formed tongues or projections, which fit into the grooves in the posts B and guide the beam C in its upward and downward movements. To the lower end of the beam C is securely attached a platform, D, upon which is placed the weight to be raised. Upon the back or rear side of the beam C is attached a rack, E, the teeth of which mesh into the teeth of the lever-wheel F, as shown in fig. 1. G are inclined beams or posts, the lower ends of which are securely connected to the foundation or platform A, and their upper ends are bolted to the cross-beam H, as shown in fig. 2. This beam H is also secured to the upper ends of the vertical posts B, so as to give firmness and stability to the upper part of the machine. In suitable bearings in the inclined posts G revolve the axles of the lever-wheel F. This wheel should be so placed that the teeth or cogs I attached to its circumference may mesh into the teeth of the rack E, as shown.

The wheel F is revolved and the machine operated by bars or levers, J, inserted in holes formed in the wheel F, as shown in fig. 1. The wheel F is kept from running back, and the weight held suspended while shifting bars, or at any desired elevation, by the detent or spring-lever, K, as shown in fig. 1. This lever is pivoted to the cross-beam H, and is made in the form represented in fig. 1, so that its lower or projecting end may be conveniently grasped and operated when required.

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

The rack-beam E, having platform D, operating in combination with the cog-cylinder F, provided with a shiftable lever, J, and detent K, substantially as described for the purpose specified.

WILSON L. JONES.

Witnesses:

J. R. MOORE,

W. B. HAYDEN.