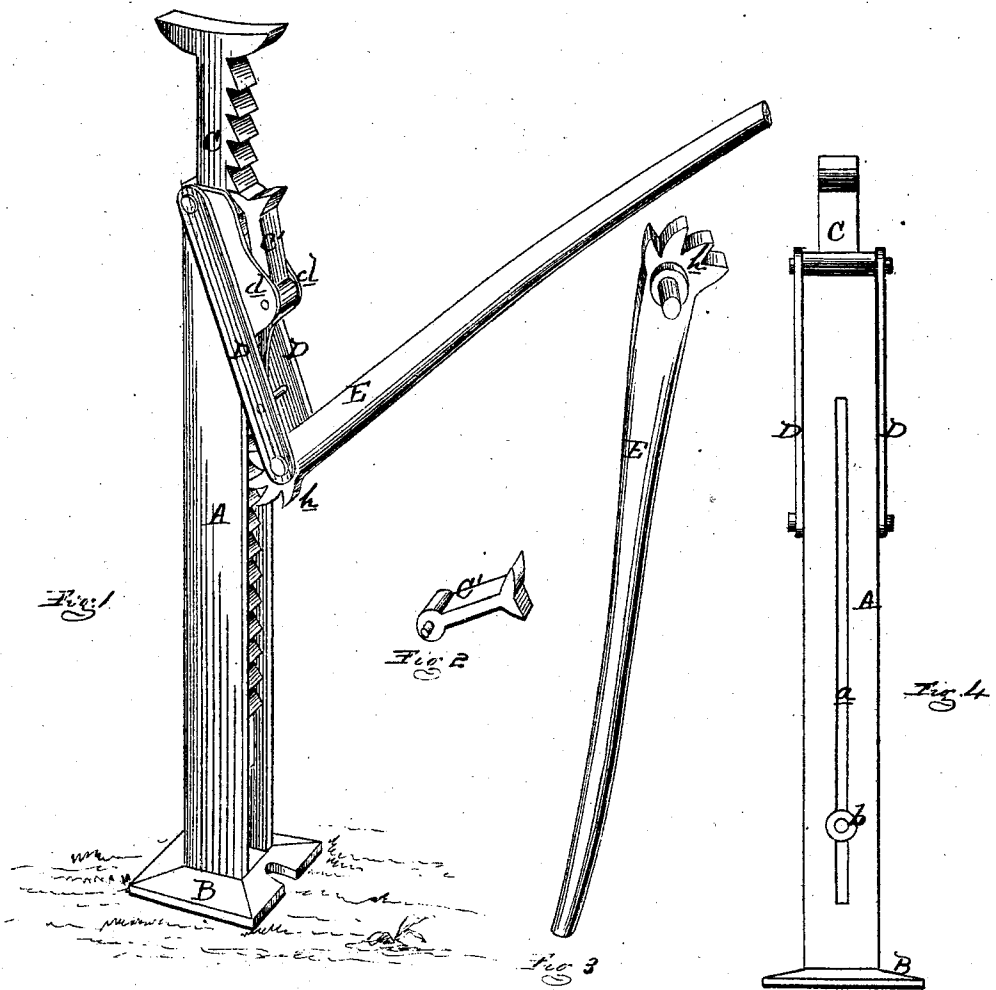


JAMES U. SMITH.

Improvement in Lifting-Jacks.

No. 116,232.

Patented June 20, 1871.



ATTEST

Myron H. Church
Charles J. Hunt.

INVENTOR

James U. Smith
per Atty
The L. S. Sprague

UNITED STATES PATENT OFFICE.

JAMES U. SMITH, OF ORION, ASSIGNOR TO HIMSELF AND JOSEPH MASETH,
OF WYANDOTTE, MICHIGAN.

IMPROVEMENT IN LIFTING-JACKS.

Specification forming part of Letters Patent No. 116,232, dated June 20, 1871.

To all whom it may concern:

Re it known that I, JAMES U. SMITH, of Orion, in the county of Oakland and State of Michigan, have invented a new and useful Improvement in Lifting-Jack; and I do declare that the following is a true and accurate description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon and being a part of this specification, in which—

Figure 1 is a perspective; Fig. 2, a detached view of the dog; Fig. 3, a detached view of the lever with a segmental rack upon its end.

Like letters refer to like parts in each figure.

The nature of this invention relates to the construction of an improved lifting-jack for raising cars, carriages, wagons, fences, and other articles, where much lifting power is required, at a small cost for the device. The invention consists in the novel arrangement of the various parts, as more fully hereinafter described.

In the accompanying drawing, A represents a hollow standard, surmounted upon a proper base, B. This standard is open on the front side, as shown, and within it is the rack C, so arranged as to have a free vertical movement, and secured in place by a pin passing through the vertical slot *a* in the rear side of the standard, as shown in Fig. 4. The pin is engaged

with a nut or washer, *b*, and controls the position of the rack within the standard without interfering with its vertical movement. The front of the two sides of the standard is provided with ears *d*, to and between which is pivoted the dog C', which engages with the teeth of the rack and holds the same in its position. The arms D are pivoted to the top of the sides of the standard, as shown, near or at the rear and upper corner. Between the lower ends of these arms is pivoted the lever-pawl E, whose inner end terminates in a segmental rack, *h*, which is designed to engage with the teeth of the rack in such a manner that, by the motion of the lever, the rack may be raised as desired. Should the upper tooth of the pawl break after its engagement with the rack, the next one, in the continued movement of the lever, would engage and prevent a fall.

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

The arrangement of the standard A, rack C, dog C', arms D, and lever-pawl E, when each part is constructed as described and shown, and connected to operate substantially as set forth.

JAMES U. SMITH.

Witnesses:

F. STICKLES,
JAMES PORRITT.