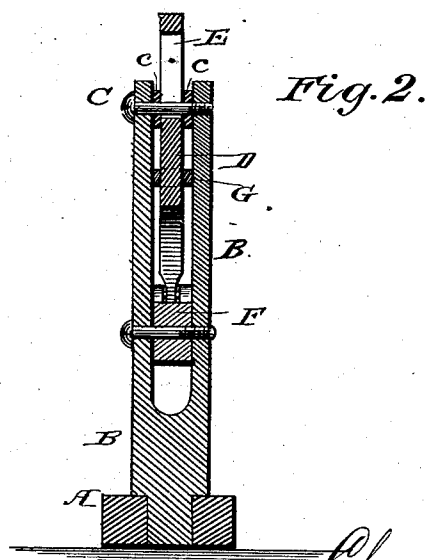
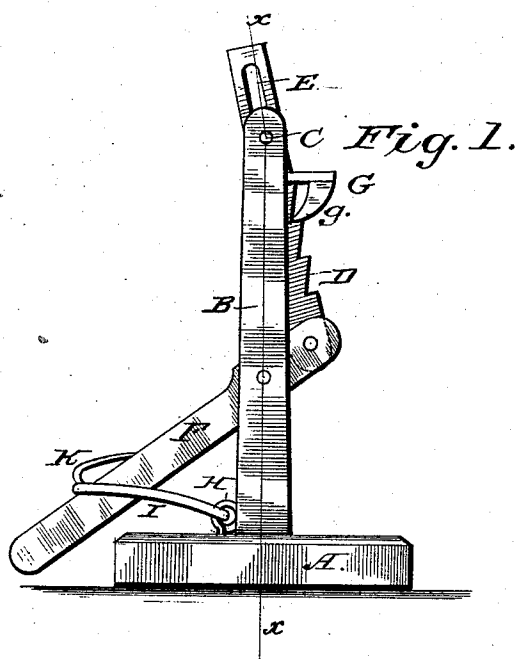


(No Model.)

C. A. SULZMAN.  
LIFTING JACK.

No. 305,028.

Patented Sept. 9, 1884.



WITNESSES:

*Wm. L. Dieterich*  
*Geo. Frech*

*Charles A. Sulzman*  
INVENTOR.

*By Louis Ragger & Co.*  
ATTORNEYS.

# UNITED STATES PATENT OFFICE.

CHARLES AUGUST SULZMAN, OF WATERFORD, NEW YORK.

## LIFTING-JACK.

SPECIFICATION forming part of Letters Patent No. 305,028, dated September 9, 1884.

Application filed July 18, 1884. (No model.)

*To all whom it may concern:*

Be it known that I, CHARLES A. SULZMAN, a citizen of the United States, and a resident of Waterford, in the county of Saratoga and State of New York, have invented certain new and useful Improvements in Lifting-Jacks; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

This invention relates to improvements in lifting-jacks for raising or adjusting at any desired height vehicles, &c., through the medium of a sliding jaw sliding over a serrated rack-bar; and to this end the invention consists in the novel construction and arrangement of parts, as will be hereinafter more fully described, and specifically pointed out in the claims.

In the annexed drawings, which fully illustrate my invention, Figure 1 is a side elevation; and Fig. 2 is a sectional view of the same, taken on the line *x x*, Fig. 1.

A represents a rectangular base or stand, upon which is mounted a bifurcated standard, B B, the lower end of which is mortised within said base in the ordinary manner, and the upper end has passing through it a pin or screw, C, provided with washers *c c* upon the inside of the standard B B.

D is a serrated or toothed rack-bar, provided at its upper end with a slot, E, and which is loosely connected to the standard B B at the top by means of the pin or screw C, so as to admit of a free vertical movement of the serrated rack-bar between the standard B B. To the lower end of the serrated rack-bar D is pivoted the bifurcated end of a lever, F, by means of the pivot *f*, and at the same end of the lever, and near the same point, the lever is again pivoted at *f'* to the standard B B, this pivotal point being the fulcrum-point of the lever F in hoisting and lowering the axles of vehicles or other objects.

G is a slotted sliding bar or plate, provided with a beak or tooth, *g*, for holding the axle

of a vehicle and adjusting it at any desired point along the serrated rack-bar, the sliding bar or plate sliding over the serrated rack-bar through the medium of the slot in it, and the projection or curved tooth *g* upon the under side of the bar or plate meshing within the serrations in the rack-bar, thus adjusting the sliding plate which holds the axle, &c.

H is an eye firmly secured in the rectangular base A, and to which is loosely connected at one end a link, I, through which the lever F passes, and the free end of the link, when the lever is in its downward position and the serrated rack-bar is in its raised position, passes over a stop, K, which serves to hold the serrated rack-bar firmly in position when it is elevated at its highest point.

It will be observed from the foregoing description that in its operation my device is simple, and it can be manufactured at but a very small cost.

I reserve the right to vary the construction of my device without departing from the spirit of the invention.

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

1. In a lifting-jack, the combination of the bifurcated standard B B, provided with the pin C and washers *c c*, the lever F, pivoted to the lower end of the slotted serrated rack-bar D, and the slotted sliding bar G, having the tooth *g*, meshing within the serrations of the rack-bar, substantially as described.

2. In a lifting-jack, the combination of the base A, standard B B, lever F, serrated rack-bar D, slotted at its upper end, sliding bar G, having beak or tooth *g*, pin C, for supporting the serrated rack-bar D, and link I, for holding the lever down in position, all constructed and arranged substantially as herein set forth.

In testimony that I claim the foregoing as my own I have hereunto affixed my signature in presence of two witnesses.

CHARLES AUGUST SULZMAN.

Witnesses:

GEORGE H. COLE,  
GORDON DAVIS.