I. A. CRIPPEN.

Lifting-Jacks.

No. 142,680. Patented September 9, 1873.

Fig. 1.

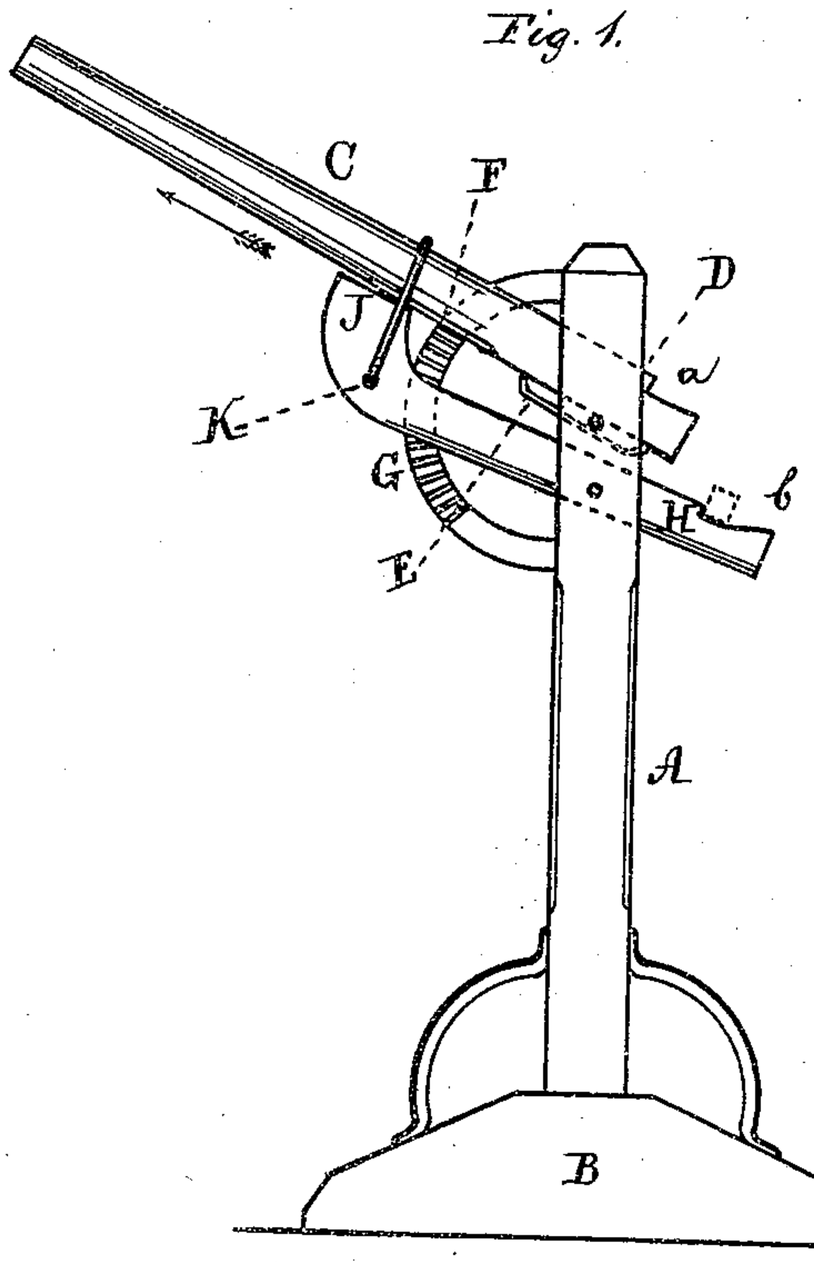


Fig. 2.

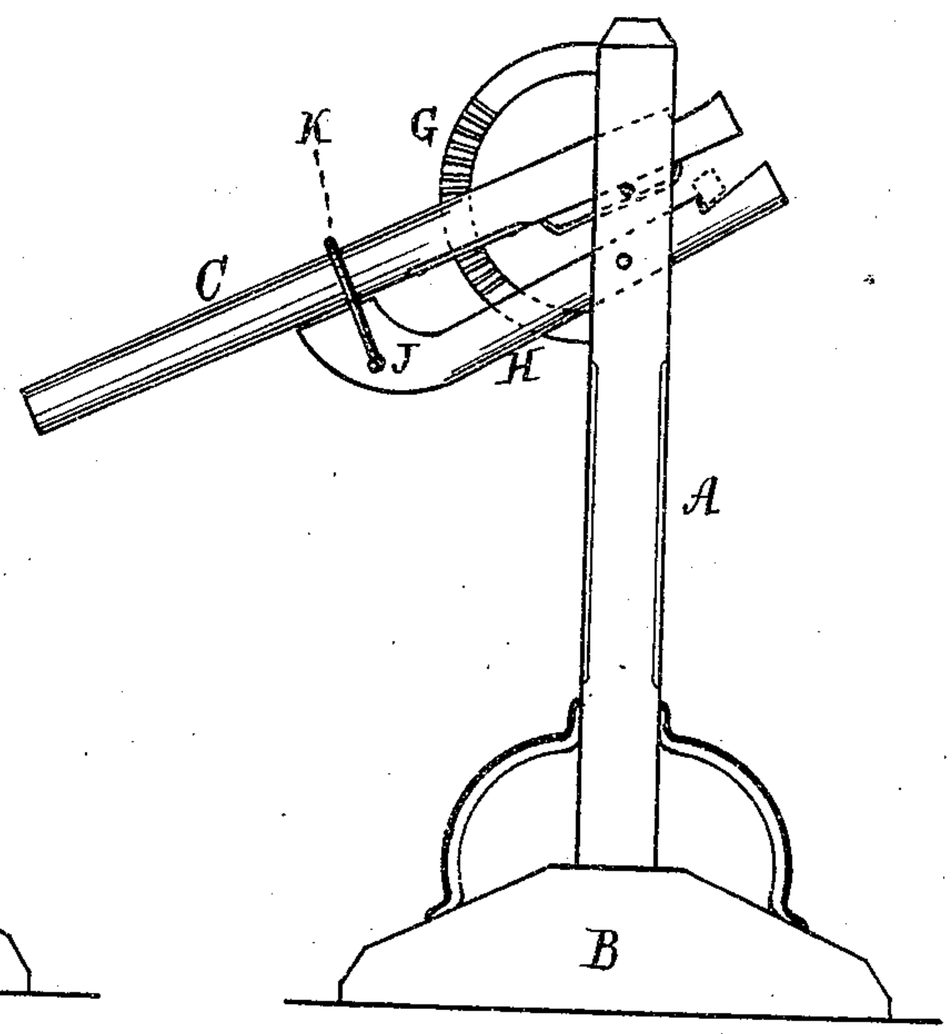
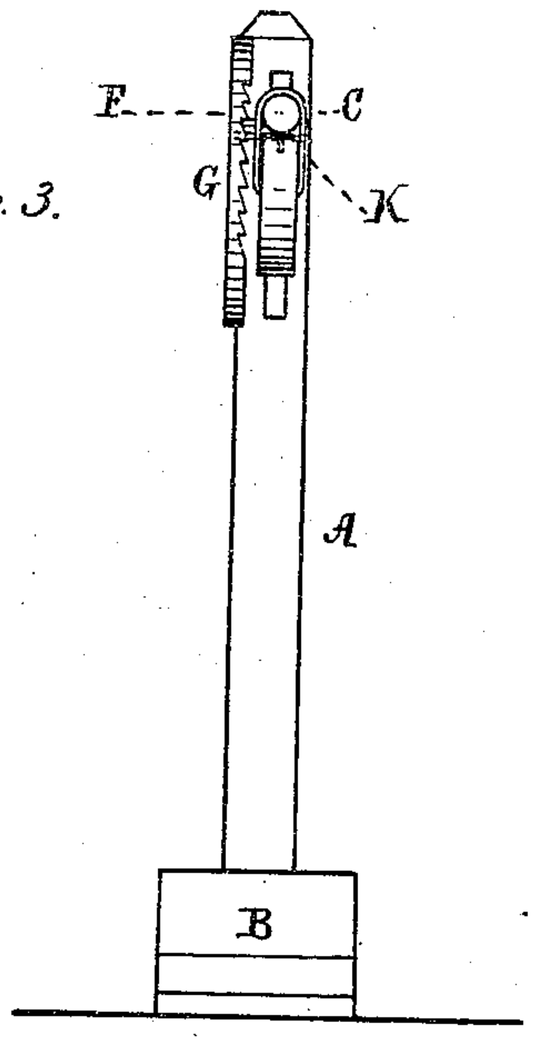


Fig. 3.



Witnesses:
Jacob E. Schiedt.
Millard L. Walton.

Inventor:
Isaac A. Crippen.
by John A. Diedersheim & Co.
Attys.

UNITED STATES PATENT OFFICE.

ISAAC A. CRIPPEN, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR OF ONE-HALF HIS RIGHT TO SMITH LOWDER, OF SAME PLACE.

IMPROVEMENT IN LIFTING-JACKS.

Specification forming part of Letters Patent No. **142,680**, dated September 9, 1873; application filed May 26, 1873.

To all whom it may concern:

Be it known that I, ISAAC A. CRIPPEN, of the city and county of Philadelphia and State of Pennsylvania, have invented a new and useful Improvement in Jacks for Wagons, Carriages, and Vehicles generally; and I do hereby declare the following to be a clear and exact description of the nature thereof, sufficient to enable others skilled in the art to which my invention appertains to fully understand, make, and use the same, reference being had to the accompanying drawings making part of this specification, in which—

Figures 1 and 2 are side elevations of the device embodying my invention. Fig. 3 is an end view thereof.

Similar letters of reference indicate corresponding parts in the several figures.

This invention consists in a main and an auxiliary lever for adapting the jack for various diameters or sizes of wheels and heights of axles. It also consists in a clevis secured to the auxiliary lever and embracing the main lever, for keeping the latter on the former and preventing lateral movement or displacement of parts. It also consists in the combination of various parts to form an improvement in jacks.

Referring to the drawings, A represents the standard, which may rise from the base or feet B. C represents the main lever, one end *a* of which projects through a slot in the upper end of the standard A, and is there jointed to the latter by means of the fulcrum-pin D, which is secured to the standard, and passes through a loop, E, secured to the lower side of the lever, so that the lever has a sliding movement on its axis D. A tooth, F, projects laterally from the lever C, and engages with a toothed segment, G, which is attached to the upper end of the standard A, and so arranged that its teeth may be engaged by the tooth F of the lever C, and consequently lock the latter when in use. A slight lateral movement of the lever will disengage its tooth of the segment, for purposes well known. To the standard A, just below the fulcrum D, I joint an auxiliary lever, H, one end of which projects through a slot in the standard, and its other end J is curved upwardly, so as to come in contact with the lever C at a point between the ends of said lever C, and to the curved end J is connected a clevis, K, which is in the form of an open ring or frame, and freely embraces the main lever.

When a wheel is to be raised the jack is properly located near the hub or axle thereof. If the axle or hub is high, the end *a* of the lever C is run or passed thereunder, and the full leverage may be obtained by drawing the lever in the direction of the arrow. Now, depress the lever, and lock it with the segment G, and the wheel will be held in elevated position. If the axle or hub is low, the jack is to be so located that the end of the lever H will come under said axle or hub. Now, depress the handle end of the lever C, the full leverage of the lever C being obtained in the manner above stated, and the vehicle will be easily elevated, and so held by engaging the tooth F of the lever C with the segment G.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The auxiliary lever H, in combination with the lever C, substantially as and for the purpose set forth.

2. The clevis K, in combination with the auxiliary lever H and the sliding lever C, substantially as and for the purpose set forth.

3. The sliding lever C, auxiliary lever H, clevis K, segment G, tooth F, and standard A, combined and operating substantially as and for the purpose set forth.

To the above I have signed my name this 25th day of November, 1872.

ISAAC A. CRIPPEN.

Witnesses:

JOHN A. WIEDERSHEIM,

JACOB E. SCHIEDT.