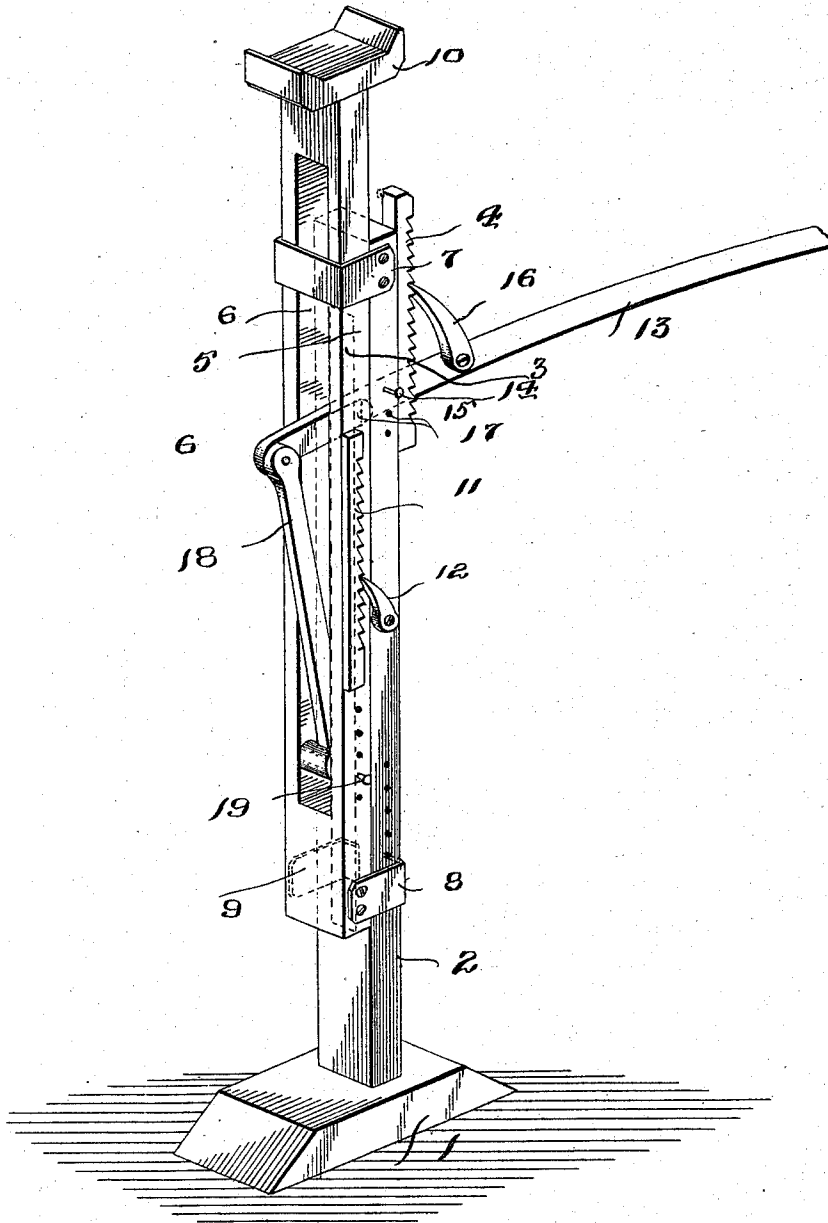


(No Model.)

W. C. WOODWARD.
LIFTING JACK.

No. 573,950.

Patented Dec. 29, 1896.



Witnesses
C. W. Hesler,
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UNITED STATES PATENT OFFICE.

WARNER C. WOODWARD, OF SCRANTON, PENNSYLVANIA.

LIFTING-JACK.

SPECIFICATION forming part of Letters Patent No. 573,250, dated December 29, 1896.

Application filed July 23, 1896. Serial No. 600,210. (No model.)

To all whom it may concern:

Be it known that I, WARNER C. WOODWARD, a citizen of the United States, residing at Scranton, in the county of Lackawanna and State of Pennsylvania, have invented certain new and useful Improvements in Lifting-Jacks; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to lifting-jacks.

My object is to provide an improved lifting-jack of more simple and cheap construction which will be extremely powerful and can be quickly and easily adjusted whenever desirable, and one provided with novel mechanism for locking it when adjusted.

Having this object in view, my invention consists of a lifting-jack comprising those novel features and combinations appearing more in detail hereinafter.

The accompanying drawing represents a perspective view of the device.

The numeral 1 designates the base of the jack. From this base arises a standard 2, which is provided with a longitudinally-extending slot 3 that leads through the upright from front to rear. At one side of the slot and at the upper end of the upright is located a rack 4.

The numeral 5 designates an adjusting-bar which is provided with a longitudinally-extending slot 6 and is adapted to slide against the front face of the upright. A U-shaped guide 7, connected to the upper end of the upright, and L-shaped guides 8 and 9, fastened to the lower end of the adjusting-bar, are the means whereby the latter and the upright are held together, so that the adjusting-bar can slide freely up and down. On the upper end of the adjusting-bar is located a concave rest 10 for the reception of the axle of the vehicle.

The numeral 11 designates a rack which is connected to one side of the adjusting-bar, and 12 is a pawl which is pivoted to the upright and adapted for engagement with the rack.

An operating-lever is designated by the numeral 13, being pivoted in the slot of the upright on a removable pin 14. The upright is

provided with one or more additional pin-openings 15, so that the lever can be pivoted higher or lower in relation to the upright. A curved pawl 16 is pivoted to the operating-lever and adapted to lock with rack 4. The forward end of the lever is cut away, as at 17, so as to accommodate a pitman, which will now be described. A pitman is shown at 18, being pivotally connected to the forward end of the operating-lever and also pivoted on a removable pin 19, which passes through two of a series of pin-openings 20, made through the adjusting-bar. This pitman is adapted to work in and out of the slot of the adjusting-bar whenever the lever is operating. Different degrees of leverage can be obtained by removing the pin 19 and pivoting the pitman either higher or lower in relation to the adjusting-bar.

The operation is as follows: When the lever is depressed, the pawls ride on the racks, and as soon as the movement of the lever ceases these pawls engage with the rack and hold the adjusting-bar raised, so that the vehicle is properly supported. When it is desired to lower the adjusting-bar, the pawls are pulled out of engagement with the rack and the lever raised upwardly.

Slight and immaterial changes of construction might be resorted to by one skilled in the art to which my invention appertains, and hence it is to be understood that I do not limit myself to the precise construction herein shown and described, but consider that I am entitled to all such variations as come within the spirit and scope of the invention.

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

1. In a lifting-jack, the combination with a base, of an upright arising therefrom which is provided with a rack, an adjusting-bar carrying a rest and slidable vertically in relation to the upright, and being also provided with a rack, a pivoted operating-lever, a pitman connecting said operating-lever with the adjusting-bar, a pawl pivoted to the upright and adapted to engage with a rack of the adjusting-bar, and a second pawl pivoted to the lever and adapted to engage with the rack of the upright.

2. In a lifting-jack, the combination with

a base, of an upright arising therefrom, a rack connected to the upright, an adjusting-bar provided with a rest, a rack connected to said adjusting-bar, guides for holding the upright
5 and adjusting-bar together, but adapted for relative vertical movement, an operating-lever pivoted to the upright, a pawl pivoted to the lever and adapted for engagement with the rack of the upright, a second pawl piv-
10 oted to the upright and adapted for engage-

ment with the rack of the adjusting-bar, and a pitman connected to the operating-lever and adjustably connected to the adjusting-bar.

In testimony whereof I have signed this specification in the presence of two subscrib- 15
ing witnesses.

WARNER C. WOODWARD.

Witnesses:

GEO. C. WILSON,
ISAAC S. PARK.