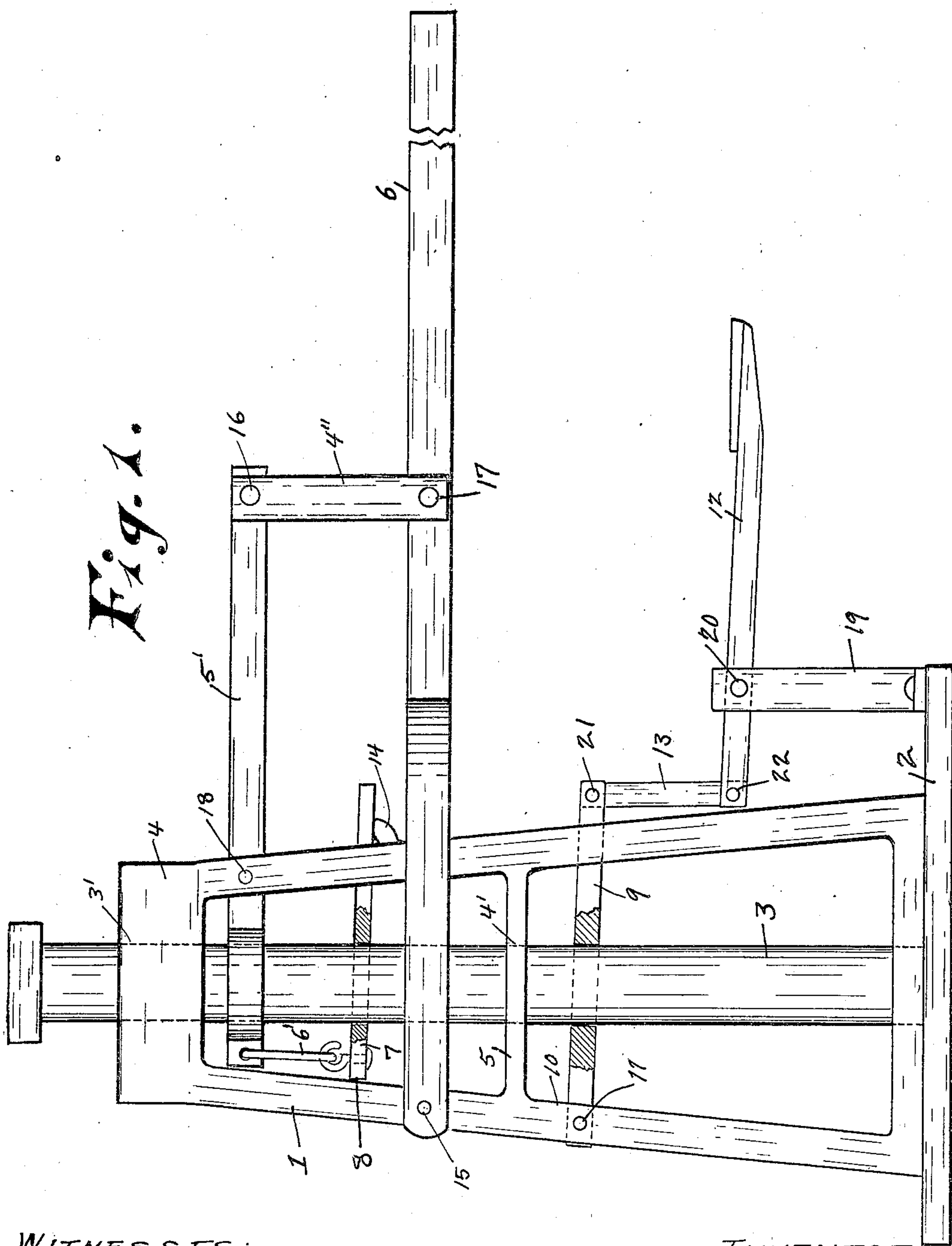


No. 887,190.

PATENTED MAY 12, 1908.

D. D. COOKE.  
LIFTING JACK.  
APPLICATION FILED NOV. 18, 1907.



WITNESSES:

O. R. Erwin  
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# UNITED STATES PATENT OFFICE.

DAVID D. COOKE, OF MILWAUKEE, WISCONSIN.

## LIFTING-JACK.

No. 887,190.

Specification of Letters Patent.

Patented May 12, 1908.

Application filed November 18, 1907. Serial No. 402,682.

*To all whom it may concern:*

Be it known that I, DAVID D. COOKE, a citizen of the United States, residing at Milwaukee, county of Milwaukee, and State of Wisconsin, have invented new and useful Improvements in Lifting-Jacks, of which the following is a specification.

My invention relates to improvements in lifting jacks and it pertains more especially, first to the means hereinafter described, for communicating motion from the operator to the vehicle supporting standard by compound levers, a gripping collar and a connecting link interposed between one of said levers and the gripping collar. Second, to the standard supporting collar, the releasing lever and means for communicating motion from the releasing lever to the supporting collar.

The construction of my invention is explained by reference to the accompanying drawing in which,

Figure 1 represents a side view thereof part in section.

Like parts are identified by the same reference characters.

1 represents the main frame which is supported at its lower end from the base 2.

3 is the lifting standard which is slidably supported in apertures 3' and 4' provided therefor in the horizontal bars 4 and 5.

6 is the operating lever which is adapted to be manually operated.

7 is the gripping collar.

Motion is communicated from the lever 6 to the lifting standard 3 through the link 4'', compound lever 5', link 6' and gripping collar 7. The gripping collar 7 is adapted to nicely fit the periphery of the standard 3 in such a manner that as the end 8 of such collar is inclined upwardly, said collar will impinge the periphery of the standard 3 and lift the same a short distance with each downward stroke of the operating lever 6. The lever 6 is connected by the link 4'' to the long arm of the lever 5 in such a manner that the power applied to the lever 6 is multiplied or compounded, whereby a slight effort only of the operator is required to lift a heavy weight resting upon the lifting standard. As the standard 3 is released from the gripping collar 7 it is locked in its raised position during the downward stroke of such gripping collar by the gripping lever 9. The gripping lever 9 is connected at one end to the frame post 10 by the pivot 11, while the opposite end of

said gripping lever is connected with the foot lever 12 by the link 13. The weight of the long arm of the lever 9 is such that when released from the foot of the operator it will drop and impinge the periphery of the lifting standard 3 and thereby lock the same at any desired point of adjustment. When, however, it is desirous to release the lifting standard and lower the load said gripping lever 9 is disengaged therefrom by a downward pressure upon the free end of the lever 12, whereby the long arm of the gripping lever 9 is raised and disengaged from the lifting standard.

14 is a stop or bearing against which one side of the gripping collar 7 is adapted to contact when said collar is released from the upward lift of the lever 5, whereby the lifting standard 3 is free to pass freely through said lifting collar as the load is lowered.

The operating lever 6 is preferably bifurcated and the fork end pivotally connected with the rear standards 10 of the frame by pivotal bolts 15. The link 4'' is connected with the levers 5 and 6 by the pivotal bolts 16 and 17 while the lever 5 is supported from the main standard upon the pivotal bolt 18. The foot lever 12 is connected with the base 2 by the supporting standard 19 and pivotal bolt 20, while the link 13 is connected at its respective ends with the levers 9 and 12 by the pivotal bolts 21 and 22.

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 of a vertically movable lifting standard, a stationary standard supporting frame, a gripping collar slidably supported on said standard and adapted when raised to grip and raise the same, a compound system of levers pivotally connected with said frame and gripping collar, and means for locking and supporting said lifting standard at intervals as it is raised, the movement applied to said manually operated lever being adapted to be communicated to said gripping collar through an intermediate lever by which the power applied to the first named lever is compounded and multiplied.

2. In a lifting jack, the combination of a stationary frame, a vertically movable lifting standard centrally supported from said frame, a gripping collar slidably supported from said standard, a system of compound levers pivotally connected with said gripping



collar and standard supporting frame adapted to raise said standard as the system of levers is operated, a gripping lever pivotally connected at one end to said frame and centrally connected with said lifting standard, 5 a foot lever pivotally supported from the base of said frame and a link communicating from the short arm of said foot lever to the long arm of said gripping lever, the 10 movement applied to said manually operated lever being adapted to be communi-

cated to said gripping collar through an intermediate lever by which the power applied to the first named lever is compounded and multiplied, all substantially as and for the 15 purposes specified.

In testimony whereof I affix my signature in the presence of two witnesses.

DAVID D. COOKE.

Witnesses:

JAS. B. ERWIN,  
O. R. ERWIN.