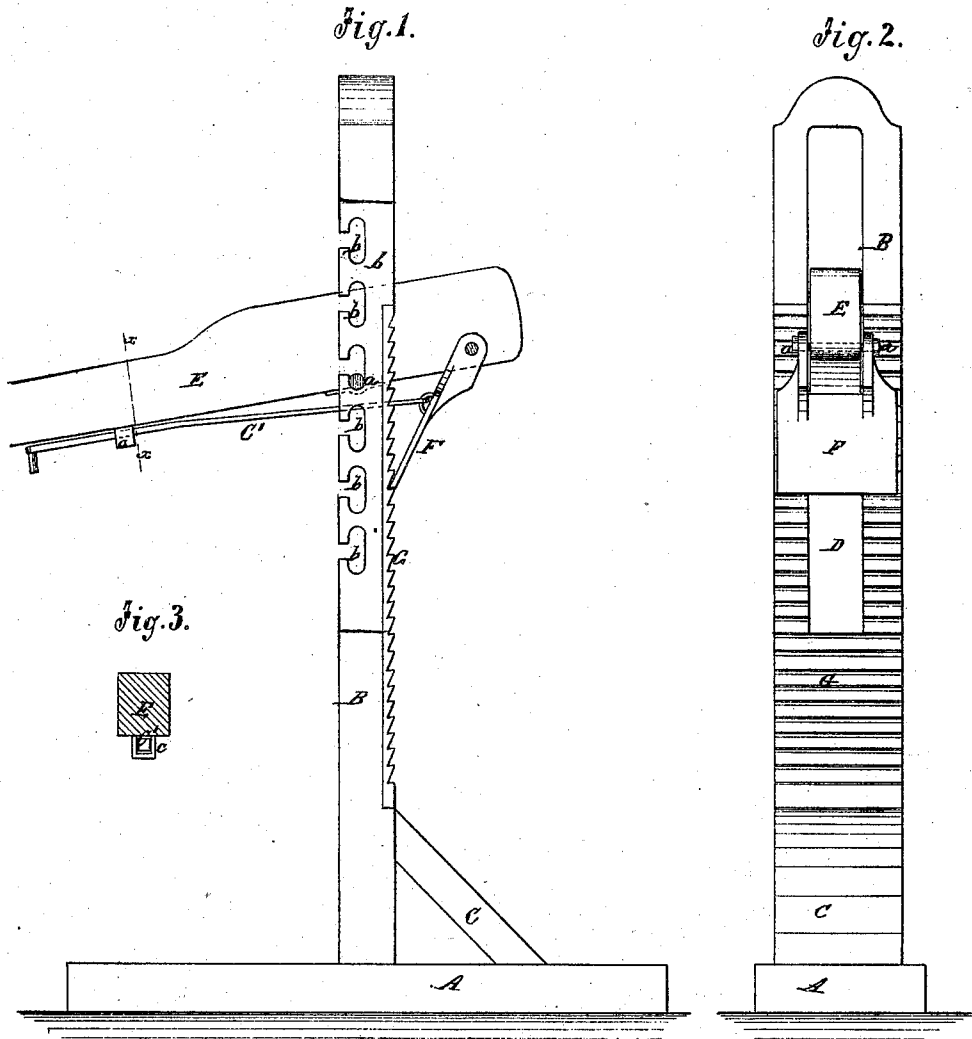


G. B. Fowler,
Wagon Jack.

No. 113,285.

Patented Apr. 4. 1871.



Witnesses:
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GEORGE BENEDICT FOWLER, OF BROOKLYN, NEW YORK.

Letters Patent No. 113,285, dated April 4, 1871.

IMPROVEMENT IN WAGON-JACKS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern :

Be it known that I, GEORGE BENEDICT FOWLER, of Brooklyn, in the county of Kings and State of New York, have invented a new and improved Wagon-Jack ; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing making a part of this specification.

This invention relates to a new and improved wagon-jack of that class in which a lever, pawl, and rack are employed for raising the axle and wheel and retaining them to the desired height.

The invention consists, substantially, in the employment or use of a finger-rod connected with the pawl, as hereinafter fully shown and described, whereby the pawl, when necessary, is held engaged with the rack without the intervention of a spring, and the pawl, when necessary, allowed to disengage itself from the rack simply by its own gravity.

The invention further consists in the employment or use of T-shaped fulcrum-bearings, as hereinafter fully shown and described, whereby efficient bearings are obtained for the lever while operating the same either upward or downward; and the lever effectually prevented from becoming casually disengaged.

In the accompanying drawing—

Figure 1 is a side elevation of my invention.

Figure 2, a front view of the same, looking in the direction of arrow 1.

Figure 3, a transverse section of the lever, taken in the line *z z*, fig. 1.

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

A represents the base of the machine; and

B, an upright or standard, which is framed into the base about at its center, and firmly secured by a brace, C.

The upright B has a slot, D, made in it for the lever E to work through, the fulcrum *a* of said lever working in T-shaped bearings, *b*, which are made in the sides of the upright or standard, and faced at each side with a metallic plate, *b*, which obviates wear.

It will be seen that the T-shaped slots *b* will effectually prevent the fulcrum-pin *a* from slipping out from its bearings, both while the lever is moved in an up-

ward and downward direction, and at the same time the fulcrum-pin of the lever may be very readily adjusted higher or lower in the bearings—that is to say, taken from one bearing and fitted in one higher or lower, with the greatest facility.

The lever E has a pawl, F, suspended to it near its outer end and a short distance from the upright or standard, as shown clearly in fig. 1, and said pawl has a rod, C', affixed to it, which extends back through a guide, *c*, on the lever, as shown more particularly in fig. 1.

The pawl has a tendency to swing outward or free from the rack G, which is secured to the upright or standard B, said rack being of cast-iron or other suitable metal.

From the above description it will be seen that, when the long arm of the lever E is pressed downward, the short arm will be raised, and if the short arm be adjusted under the axle, the latter, with its wheel, will also be raised and retained at the desired height by the pawl F, the latter being retained or kept in contact with the rack by drawing back on the rod C' by means of the finger. On releasing the rod C' the pawl F will immediately swing outward free from the rack, and the axle may be let down gradually to its original or normal position.

I am aware that a lever, pawl, and rack, similar to the ones herein shown and described, have been used in wagon-jacks; and I therefore do not claim the above-named parts separately; but having thus described my invention,

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

1. The arrangement, in the lifting-jack herein shown and described, of the lever E, swinging pawl F, rack G, T-shaped bearings *b*, the whole constructed and arranged to operate substantially as set forth.

2. The rod *c*, lever E, swinging pawl F, rack G, and the T-shaped bearings *b*, constructed, arranged, and operating substantially in the manner as herein shown and described.

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Witnesses:

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