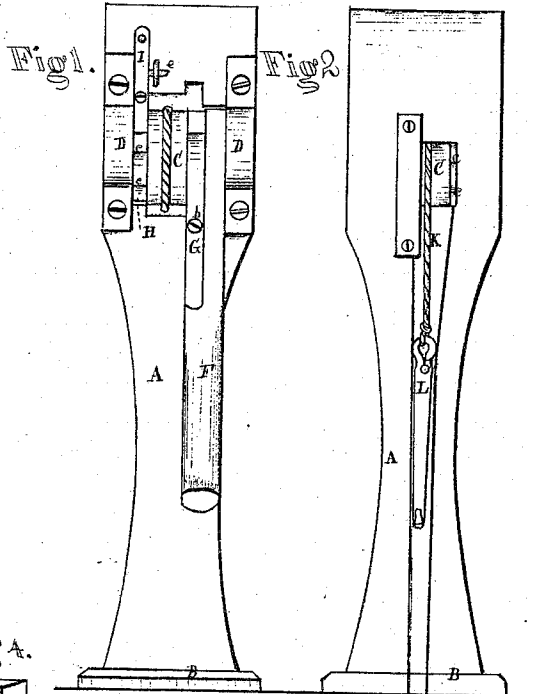


*F. C. White,*

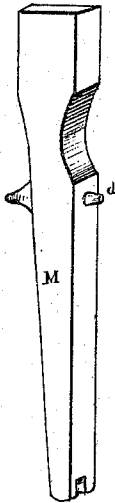
*Lifting Jack.*

*No. 100828.*

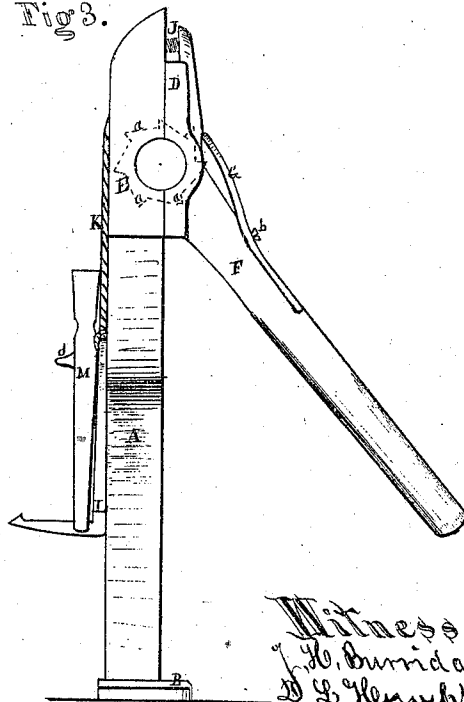
*Patented Mar. 15. 1870.*



*Fig. 4.*



*Fig. 3.*



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*Witnesses,*  
*J. H. Burridge,*  
*D. S. Humphrey.*

# United States Patent Office.

F. C. WHITE, OF EUCLID, OHIO.

Letters Patent No. 100,828, dated March 15, 1870.

## IMPROVEMENT IN LIFTING-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, F. C. WHITE, of Euclid, in the county of Cuyahoga, and State of Ohio, have invented a certain new and improved Farm-Fence Jack; and I do hereby declare that the following is a full, clear, and complete description of the same, reference being had to the accompanying drawings making part of this specification, in which drawings—

Figure 1 is a front view of the jack.

Figure 2, a view of the opposite side of fig. 1.

Figure 3 is a side view.

Figure 4, a detached section.

Like letters of reference refer to like parts in the several views.

### Objective.

This invention has for its object the lifting of fences by means of a jack, said jack being constructed with a roller actuated by a pawl and lever, and around which is wound a rope or chain having its free end attached to the fence, which is thereby lifted from the ground for placing thereunder a stone, or for the insertion of a rail, as hereinafter more fully described.

### Descriptive.

In fig. 1—

A represents a standard provided with a broad base or foot-piece, B.

In an aperture cut through the upper end of said standard is inserted a roller, C, having its bearings in the sides thereof, and secured in place by the caps X.

On one end or side of said roller is cut a series of teeth, *a*, forming a ratchet-wheel, indicated by the dotted lines E, fig. 3, whereby the roller is actuated by the application of the lever F and hook pawl G, thereto attached loosely at the point *b*, as hereinafter shown.

On the opposite side of the roller is also cut a series of teeth, *c*, fig. 1, forming a ratchet-wheel, H, which also may be indicated by the dotted lines E, fig. 3.

The two ratchet-wheels possess the same constructive character, and hold each a side relation to the roller.

I is a pawl, pivoted to the standard at the point *e*, the lower end of which falls upon the ratchet-wheel H, and is forced in engagement therewith by a spring, J, actuating a shorter arm of the pawl.

K is a rope or chain, one end of which is attached to the roller, whereas to the other is attached a hook, L, fig. 3.

### Operative.

Having thus described the construction and ar-

range ment of the jack, the operation of the same is as follows, viz:

The jack when used for lifting a fence is placed in close position thereto. The hook is then inserted under the rails near the ground, or, if a part only of the fence is to be lifted for the in-placing of a new rail, then under any rail of the number necessary.

The position of the jack to the fence, when thus adjusted thereto, is shown in fig. 3.

It will be obvious that on raising and depressing the lever F the pawl will engage the teeth of the ratchet-wheel E, and on its downward movement will turn the roller and thereby wind up the rope K, at the same time lifting the fence by means of the hook, the pawl I preventing the reaction of the roller during the upward movement of the lever, or holding it at any particular height.

By this means the fence can be easily and quickly lifted from the ground, or any part thereof, so that foundation-stones may be placed under it or new rails inserted, as the case may be, saving by this means much time and labor, as one person only is required to operate it.

It will be obvious that this jack may be usefully employed in raising heavy pieces of timber or other bodies requiring much power for their lifting, and also as a wagon-jack by using, in connection therewith, the auxiliary standard M, a detached view of which is shown in fig. 4. By placing this standard upon the hook, and in relation thereto as shown in fig. 3, and thus securing it by the pin *d* projected through the standard into the hook, the upper end of the auxiliary standard is adjusted under the axle-tree, which is thereby raised by the pawl and lever, as above described.

The pawl G is disengaged from the ratchet-wheel to allow of the unwinding of the rope by depressing the lower end down upon the lever, thereby throwing up the opposite end out of the teeth, and which may be easily done by the same hand operating the lever.

### Claim.

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

The roller C, ratchet-wheels H E, pawls I and G, lever F, rope K, and hook L, with or without the auxiliary standard M, in combination with the standard A, and arranged to operate in the manner substantially as described, and for the purpose set forth.

F. C. WHITE.

Witnesses:

W. H. BURRIDGE,  
D. G. BIGELOW.