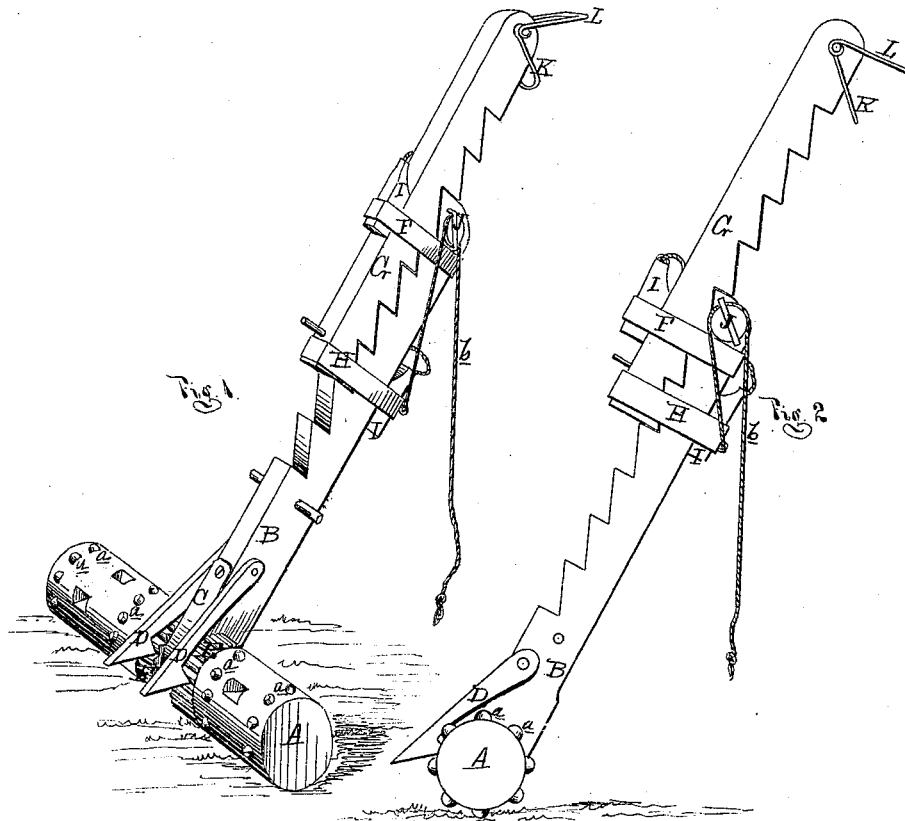


*E. Whitcomb,*

*Elevator.*

*No. 110,523.*

*Patented Dec. 27, 1870.*



ATTEST

*H. H. Everts,*  
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INVENTOR

*Oliver Whitcomb,*  
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# United States Patent Office.

ELISHA WHITCOMB, OF WATERVILLE, OHIO.

Letters Patent No. 110,523, dated December 27, 1870.

## IMPROVEMENT IN ROLLER-LIFTING POWERS.

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

### *To whom it may concern:*

Be it known that I, ELISHA WHITCOMB, of Waterville, in the county of Lucas and State of Ohio, have invented a new and useful Improvement in Roller-Lifting Power; and I do declare that the following is a true and accurate description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon and being a part of this specification, in which—

Figure 1 is a perspective of my device.

Figure 2 is a side elevation.

Like letters refer to like parts in each figure.

The nature of this invention relates to the construction of a new device for raising buildings, railway cars, or other heavy articles.

In raising buildings which require new sills by the ordinary jack-screws, the building must be blocked up and the screws removed before the new sill can be put in place. This device is designed to obviate this difficulty, by raising the building and sustaining it while the sill is being put in.

The invention consists in the new and ingenious arrangement and operation of the various parts, as more fully hereinafter described.

In the accompanying drawing—

A represents a roller, provided with spurs *a* to prevent the rollers from slipping.

A standard, B, is secured to the longitudinal center of said roller by means of a strap, C, in such a manner that said roller will have a free rotation in said strap or box.

Upon each side of the strap and standard the roller is provided with ratchet-teeth E, similar in form and operation to those usually employed upon windlasses.

Dogs D, with hooks upon their lower ends, are pivoted, one upon each side, to said standard, in such a manner that the hooked ends of said dogs will engage with said ratchet-teeth E, and prevent the backward rotation of the roller, except when such movement is required, when the dogs are disengaged for the purpose.

The upper end of the standard B is notched upon one side, as shown, and has a strap, F, rigidly secured to it, for the purposes hereinafter mentioned.

An extension, G, of this standard is shown, notched, so as to engage with the notches upon the standard proper.

This extension passes through the strap F, and in turn has secured to its lower end another and similar strap, H, which embraces the standard B, while the wedges I hold the standard and extension rigidly together by compelling the notches to engage with each other.

J is a block secured to or near the upper end of the

standard B, and over it passes the rope *b*, one end of which is secured to the lower end of the extension G, for the purposes hereinafter mentioned.

K is a clevis secured to the upper end of the extension G, and is designed to engage with a reverse hook, the opposite end of which passes under the house, car, or other object it is desired to raise.

L is a strap or tie secured, also, to the upper end of said extension G, for the purpose hereinafter set forth.

Should it be necessary to raise a frame house for any purpose, I take one of the devices constructed as above described for each side of the house, unless it is a large one, when more may be required. I put down planks or timbers upon which to set the device and rotate the rollers. I then incline the top of the machine against the house, at an angle of about thirty degrees, and, by means of a reverse hook, connect the clevis K with the sill of the house. Or, if deemed preferable, a rope or chain may be secured to the top of the machine, passing over the upper end of the extension of the standard, and its lower end made fast to the sill.

Then, with proper handspikes, the roller is rotated toward the house, (the same operation being simultaneously performed upon each side of the house at the same time,) until the device stands perpendicular with the side of the house, the dogs preventing a backward rotation of the rollers, while the spurs prevent said rollers from slipping on the plank or timbers.

Should it then be deemed necessary to raise the house still higher, it may be blocked up and the devices placed in their original positions, as first described.

The wedges I should be removed, when the operator may increase the length of his standard by pulling the rope *b*, by means of which the extension G is raised until its notches will engage with the notches of the standard, at a higher point, when the wedges should be readjusted, the chain or reverse hook made fast to the sill and the head of the device, and the operation of rotating the rollers toward the house again repeated, until the latter is raised to the desired height.

When this is done the new sills may be put in place, and a reverse rotation of the rollers will allow the house to settle down in place.

When it is desired to raise a millstone or other heavy weight perpendicularly two of the machines are set up, their tops meeting at an inclination of about thirty degrees, the head of one being inserted through the strap or tie L, by means of which they are held together. The tops of the machines are then connected with the object to be raised by any suitable

chain or hook, and the rollers rotated toward each other until the weight is lifted, as desired.

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

1. The combination, substantially as described and shown, of the roller A and the standard B, for the purposes set forth.

2. The device herein described, wherein the roller

A and standard B are constructed, substantially as specified, and arranged to operate as and for the purposes set forth.

ELISHA WHITCOMB.

Witnesses:

THOS. S. SPRAGUE.

M. STEWART.