

# Blades & Mahoney.

## Lifting Sack.

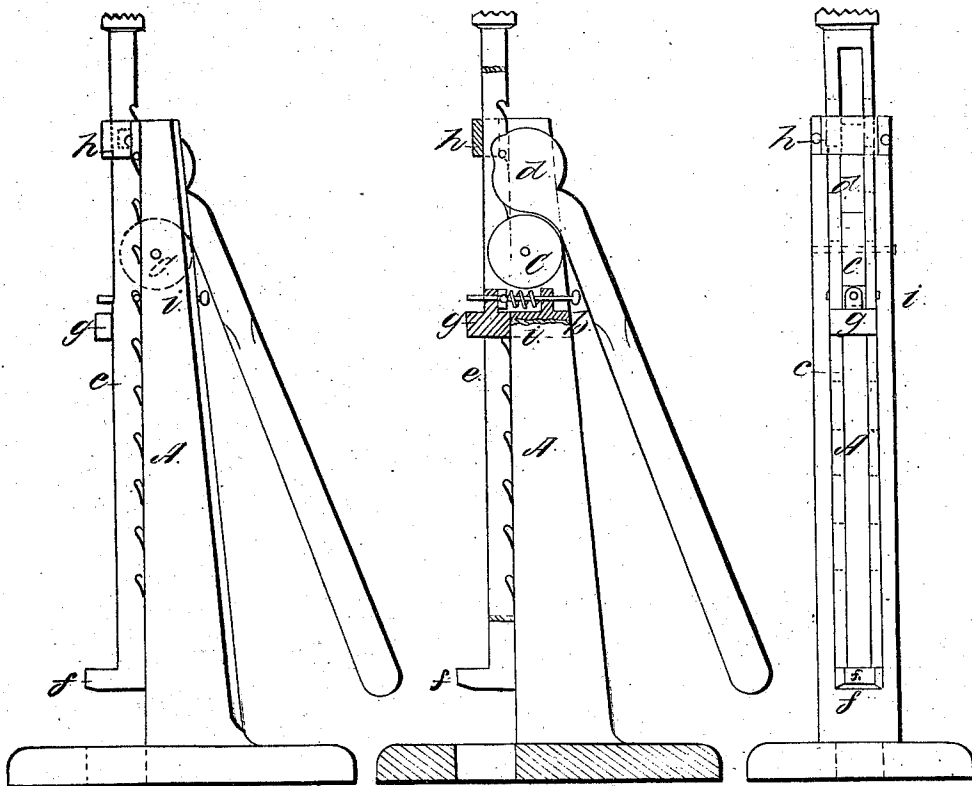
N<sup>o</sup> 100,846.

Patented Mar. 15, 1870.

Fig. 1.

Fig. 3.

Fig. 2.



Witnesses:  
Edward J. Donaherty  
James Moore.

Inventors:  
L. J. Blades  
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# United States Patent Office.

L. J. BLADES, OF HARRINGTON, AND JOHN MAHONEY, OF WILMINGTON,  
DELAWARE.

Letters Patent No. 100,846, dated March 15, 1870.

## IMPROVED LIFTING-JACK.

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

To all whom it may concern :

Be it known that we, L. J. BLADES, of Harrington, in the county of Kent, and State of Delaware, and JOHN MAHONEY, of the city of Wilmington, and State of Delaware, have invented a new and improved Track-Jack or Lifting-Machine, calculated for raising railroad tracks and other heavy bodies; and we do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings making a part of this specification, in which—

Figure 1 is a side view.

Figure 2, a front view.

Figure 3, a section through the center.

To enable others to construct and use our machine we will proceed to describe its construction.

We compose our jack or lifter of iron and steel, the body *a* being of iron, and so constructed as to hold the spring catch *b* with the wheel *c* and circular eccentric-ended lever *d*, in the center of its upper end, as shown in fig. 3.

To this body *a* we attach the sliding notched lifter *e*, kept in place by the band *h* at the top, and the catch chock *g*.

The spring catch *b*, shown at fig. 3, sets in the body at *i*.

The wheel *c* we compose of steel, and face the end of the lever with steel.

When a heavy body like a railway track is to be lifted, we set the jack so as to insert the foot-piece or shoe of the lifter, *f*, under it. Then, by lifting the

lever *d*, we bring the pins in its end down far enough to enter the notch below it, and bearing down the handle, the end working upon the wheel or roller *c*, readily forces the slide with its burden up a notch, and the pins of the slide catch are forced into the notch below, and hold the slide firmly in place until the process is repeated, and so on until the thing to be moved is raised to the required height. The peculiar construction of the end of the lever, in connection with the stationary wheel or pulley, act on the principle of friction-rollers, and very readily overcome the weight in lifting.

We do not claim the notched sliding lifter *e*, as it has in one shape or another been already used in jacks; but

What we claim as our invention, and desire to secure by Letters Patent, is—

1. The eccentric lever and reciprocating wheel, when set in the body or immovable portion of a jack or lifting-machine, constructed and arranged substantially as herein shown and set forth.

2. The wheel *c* and lever *d*, in combination with the notched lifting slide *e* and the spring catch *b*, constructed and arranged substantially as hereinbefore described, and for the purposes specified.

L. J. BLADES.  
JNO. MAHONEY.

Witnesses:

W. M. SILVER, Jr.,  
EDWARD J. DOUGHERTY.