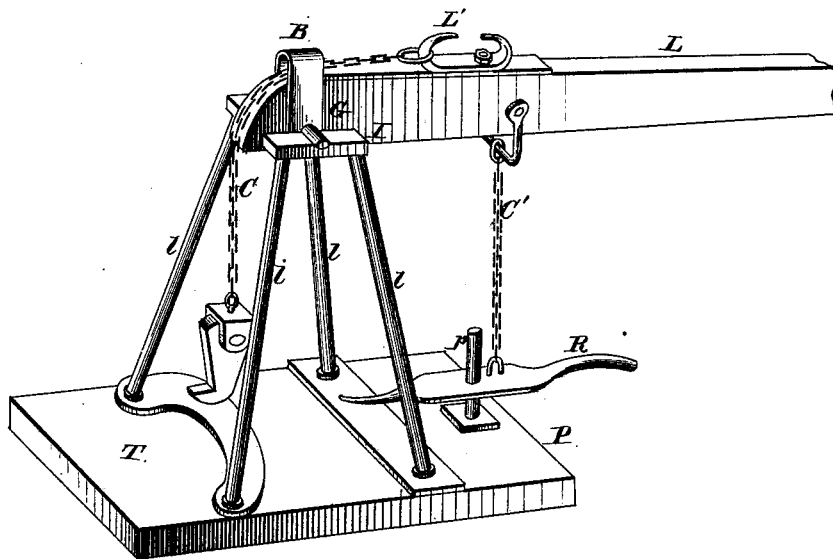


N. HILL.  
Lifting-Jacks.

No. 200,792.

Patented Feb. 26, 1878.



*Attest.*

*O. P. Rathell,*  
*Luther Williams*

*Inventor.*

*Nathan Hill*

# UNITED STATES PATENT OFFICE.

NATHAN HILL, OF CLYDE TOWNSHIP, ALLEGAN COUNTY, ASSIGNOR TO JOHN K. DIVERS, OF SAME PLACE, JOHN HILL, OF GRAND RAPIDS, AND WILLIAM B. TRIPP, OF BANGOR, MICHIGAN.

## IMPROVEMENT IN LIFTING-JACKS.

Specification forming part of Letters Patent No. 200,792, dated February 26, 1878; application filed February 22, 1877.

*To all whom it may concern:*

Be it known that I, NATHAN HILL, of Clyde township, Allegan county, State of Michigan, have invented a Railroad Lifting-Jack, of which the following is a specification:

The object of my invention is to facilitate the raising of railroad-tracks for the purpose of leveling, or for any other purpose which requires the lifting of the track from the road-bed.

To enable others skilled in the art to make and use my invention, I will proceed to describe it and its operation.

The accompanying drawing presents a front and side view of my lifting-jack, and is constructed upon a platform or plank of suitable proportions, as shown at P. Bolted to this are four legs or standards, as shown at *l l*, set bracingly, and inclining to each other at top. Upon each two, at the side, is placed a block of iron, as shown at I in drawing, having a groove or depression across, to admit the gudgeon G, as hereinafter mentioned.

The lever used in my invention is constructed, as shown at L in the drawing, with desired proportions and strength, and, when placed in position for operation, is suspended at one end by the gudgeon G, resting in the grooves of the iron blocks, as shown in the drawing. Over the top of this end of the lever I place a band, as shown at B, through which the gudgeon passes, and so arranged as to leave a space between it and the top of the lever to admit the chain C, as shown in the drawing. Back from the band at a suitable distance, on the top of the lever, I place a link,

L', as shown in the drawing, so as to turn around on the bolt which holds it, to use, in the operation of the jack, the long or short end of the link, as desired. Located on the under side of the lever, and a little back from directly under the link, I place a clevis, as shown at C in the drawing, to which is attached the chain C', fastened at the other end to the ratchet-iron, of peculiar shape, as shown at R in the drawing, and which ratchet R passes over the post P, sliding up and down in the operation of the lever, and which purpose is to retain the power applied to the lever in operating the jack.

Having briefly described my invention, it is operated by placing the machine, as described, and represented in the drawing, alongside the track to be lifted, and raising the lever, and allowing the ratchet R to slide up to the top of the post P. The hook H, as represented in the drawing, attached to the chain C, catches under the rail, as shown at T, and the operation completed by bearing down on the long end of the lever. The track is lifted and held at any point desired by the chain C' and ratchet R, as above described.

I claim as my invention—

The combination of the lever L, link L', chains C C', hook H, and ratchet R, when placed in position, constructed, and operated substantially as above described, and for the purposes set forth.

NATHAN HILL.

Witnesses:

OSCAR T. TUTHILL,  
CHARLES W. LONG.