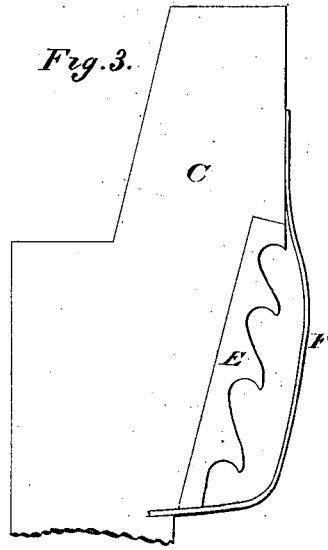
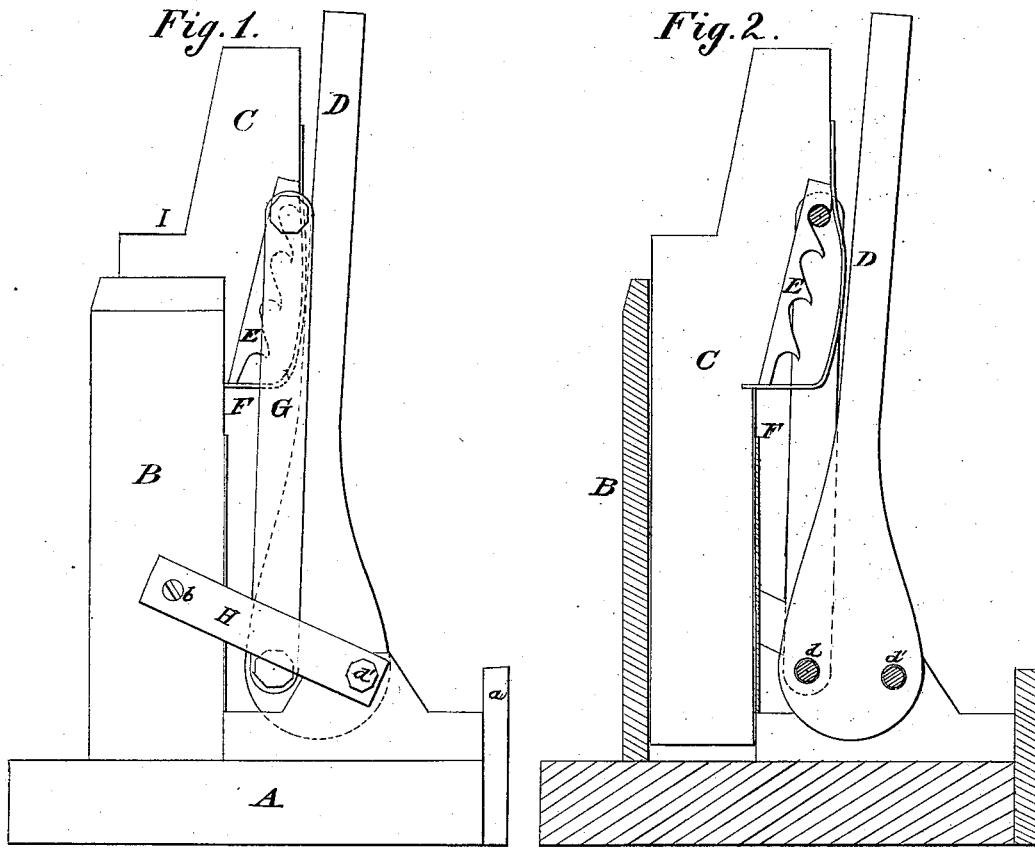


W. Z. BLACK.
LIFTING-JACK.

No. 193,138.

Patented July 17, 1877.



WITNESSES:
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WILLIAM Z. BLACK, OF ROANN, INDIANA.

IMPROVEMENT IN LIFTING-JACKS.

Specification forming part of Letters Patent No. **193,138**, dated July 17, 1877; application filed February 17, 1877.

To all whom it may concern:

Be it known that I, WILLIAM Z. BLACK, of Roann, in the county of Wabash and State of Indiana, have invented certain new and useful Improvements in Lifting-Jacks; and I do hereby declare that the following is a full, clear, and exact description thereof, that will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

The same letters and figures of reference are used to indicate the corresponding parts.

After describing the invention, its nature and extent will be shown in the claims.

My invention is an improvement in lifting-jacks which are principally used in raising carriages from the ground.

It consists of a lever with a convex-shaped shoulder, sliding ratchet-bar, and a dog engaging with the ratchet-bar.

Figure 1 is a side view of my invention. Fig. 2 is a vertical sectional view, and Fig. 3 is a detached view of the top of the ratchet-bar.

A is the base, and B the upright or standard, into a central slot of which the ratchet-bar C plays in a vertical direction. D is a lever, pivoted at *d'* to a shoulder of the base A. One end of the parallel bracing-plates H is pivoted to the standard B at the point *b*, and the other end to the shoulder at *d'*.

The engaging-dog G is composed of two parallel plates, one end of which is pivoted at *d* of the convex-shaped end of the lever D. The other end of the dog moves in the notches E of the ratchet-bar C.

F is a guard which confines the upper end of the dog G, so that it will engage with the ratchets E. I is the shoulder of the ratchet-bar C, which is made to receive the carriage or body to be elevated.

The operation of my invention is as follows: The carriage or body to be elevated is placed on the shoulder I. The lever D is then drawn downward, the carriage is raised, and the point *d* of the lever D is brought over the raised shoulder of the base A. Thus the lower end of the dog G rests on a firm foundation.

Having now fully described my invention, what I claim, and desire to secure by Letters Patent, is—

1. In a lifting-jack, the sliding ratchet-bar C, provided with the shoulder I, the ratchets E, and the protecting-plate F, moving vertically in the central slot of the standard B, substantially as described, and for the purposes set forth.

2. The lever D, the bracing-plates H, and the base A and standard B, in combination with the parallel engaging-dogs G, one end of which is confined by the protecting-bar F to the ratchets E, and the sliding ratchet-bar C, moving in a vertical central slot of the standard B, substantially as described, and for the purposes set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 5th day of February, 1877.

WILLIAM Z. BLACK.

Witnesses:

A. W. HOFFMAN,
LEVI PATTERSON.