

A. GORRELL.  
Hoisting-Jack.

No. 214,249.

Patented April 15, 1879.

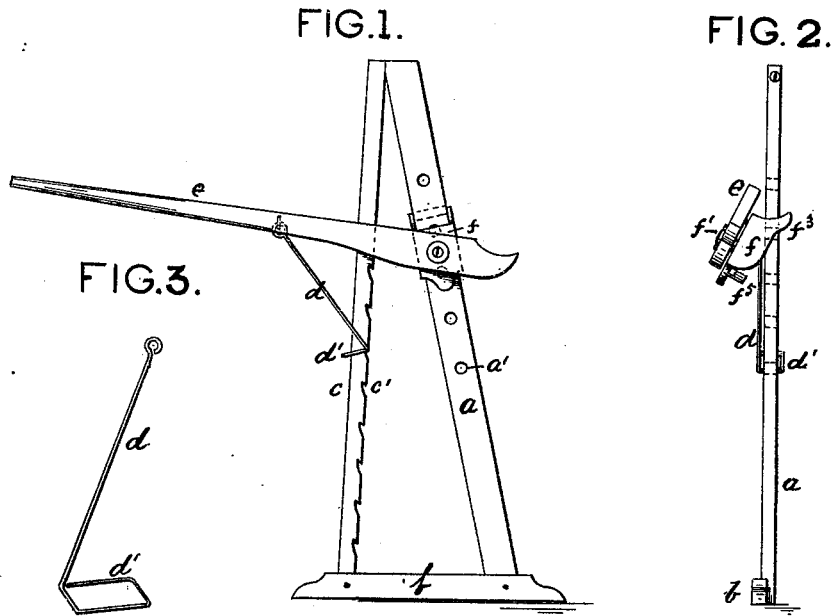


FIG. 4.

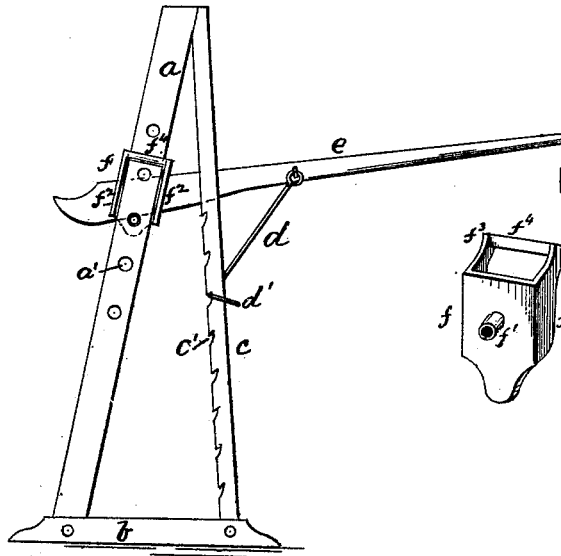
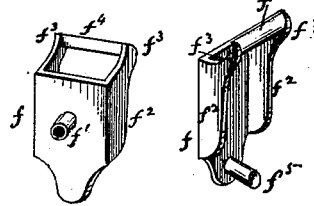


FIG. 5.



WITNESSES  
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By

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# UNITED STATES PATENT OFFICE.

ALBERT GORRELL, OF HOLMESVILLE, OHIO.

## IMPROVEMENT IN HOISTING-JACKS.

Specification forming part of Letters Patent No. **214,249**, dated April 15, 1879; application filed February 26, 1879.

*To all whom it may concern:*

Be it known that I, ALBERT GORRELL, of Holmesville, in the county of Holmes and State of Ohio, have invented certain new and useful Improvements in Hoisting-Jacks; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it pertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

This invention consists in the construction and arrangement of the several parts herein-after fully set forth.

In the drawings, Figure 1 is a side elevation; Fig. 2, an end elevation. Fig. 4 is a reverse side elevation, and Figs. 3 and 5 are detail views.

*a* is the main or fulcrum post, provided with a series of holes, *a'*. It is mortised into the sill *b*, and is set in a slightly-inclined position, as shown.

*c* is the brace and ratchet bar or post, having its lower end set in the sill *b*, while its upper end is firmly attached to the upper end of the main bar *a*, and it has cut in its edge next the bar *a* the series of notches *c'*, for holding the loop *d'* formed on one end of the stay-rod *d*, the opposite end of which is affixed to the lever *e*, as shown.

*f* is an adjustable fulcrum, which slides up and down on the post *a*. It is provided with the pin *f<sup>1</sup>*, on which the lever *e* is fixed. It has the rear projecting side plates *f<sup>2</sup> f<sup>2</sup>*, which fit against the edges of the post *a*, and which

have the lugs *f<sup>3</sup> f<sup>3</sup>*, which project above the upper end of the fulcrum-plate *f* and backward, and are connected by the cross-bar *f<sup>4</sup>*, which fits snugly against the rear side of the post *a*. By reason of this construction the fulcrum may be turned outward from the post *a*, withdrawing the retaining-pin *f<sup>5</sup>* from its hold in one of the holes *a'*, as shown in Fig. 2, and may be slipped up or down and adjusted to the height of the weight to be lifted.

When the lever *e* is pressed down the loop *d'* of the rod *d* will catch in the notches *c'* and hold the weight on the end of the lever stationary in position.

I claim as my invention—

1. The improved lifting-jack, consisting of the bars *a* and *c* and sill *b*, lever *e*, stay-rod *d*, and loop *d'*, and the fulcrum-plate *f*, having the pins *f<sup>1</sup> f<sup>5</sup>*, lugs *f<sup>3</sup>*, and cross-bar *f<sup>4</sup>*, constructed and arranged substantially as set forth.

2. In a lifting-jack having a post or bar, *a*, with retaining-holes *a'*, the adjustable fulcrum *f*, having side plates *f<sup>2</sup>*, lugs *f<sup>3</sup>*, projecting backward and upward above the upper end of the plate *f*, and connected by the cross-bar *f<sup>4</sup>*, and provided with the retaining-pin *f<sup>5</sup>* and lever-supporting pin *f<sup>1</sup>*, substantially as set forth.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

ALBERT GORRELL.

Witnesses:

JOSIAH MARTIN,  
JOHNSON MORELAND.