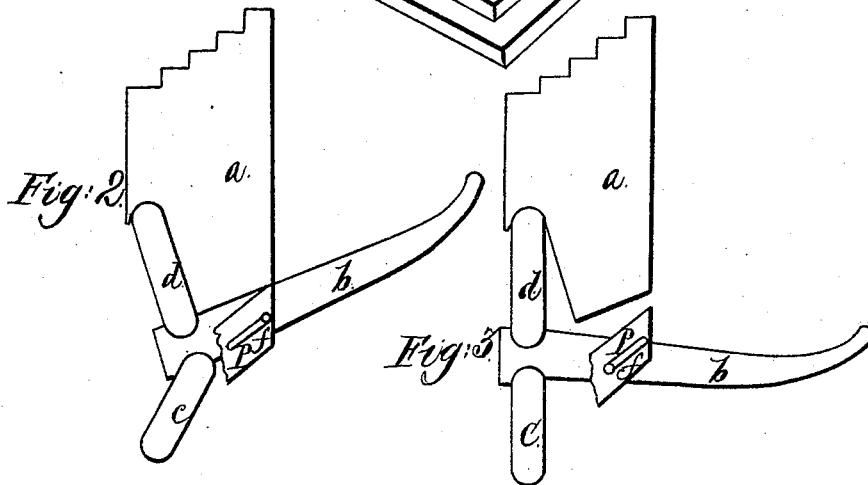
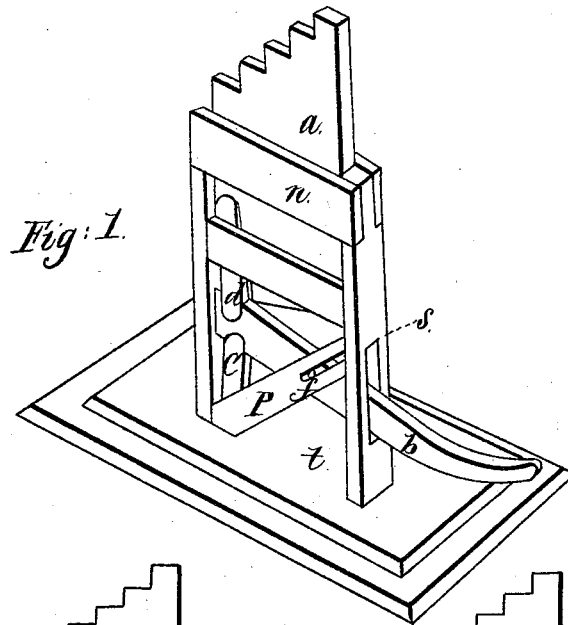


J. C. Plumer,

Lifting Jack.

N^o 51,861.

Patented Jan. 2, 1866.



Witnesses:

William H. Clifford

Henry W. M.

Inventor:

J. C. Plumer

UNITED STATES PATENT OFFICE.

J. C. PLUMER, OF BOSTON, MASSACHUSETTS.

IMPROVED CARRIAGE-JACK.

Specification forming part of Letters Patent No. 51,861, dated January 2, 1866.

To all whom it may concern:

Be it known that I, J. C. PLUMER, of Boston, in the Commonwealth of Massachusetts, have invented a new and Improved Carriage-Jack for Lifting Carriages; and I hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, making part of this specification, of which—

Figure 1 shows a perspective view of my invention; Fig. 2, a side view of the operating portions with the toggle-joint crooked; Fig. 3, the same with the toggle straightened.

The object of my invention is the production of a powerful, compact, and convenient lifting-jack for lifting carriages, and for other purposes where such a mechanism is required.

My invention consists in rendering available the supporting and raising power of the toggle when operated by the lever, or its equivalent for the purpose.

The operating parts of my invention are the elevator *a*, the toggle *d c*, the lever *b*, and the sliding fulcrum *f*. These are appropriately set in the frame which has the diagonal cross-bar *P*, having the slot in which works the sliding fulcrum. The elevator has a graduated top in order to be adaptable to the different parts of carriages and to carriages of different heights. The lever works and is held in the slot *s* cut in one of the upright portions of the frame *n*. The entire device rests on the base *t*.

My invention operates in the following manner: When the lever *b* is pressed downward the fulcrum slides along the slot, thus forcing the lever inward somewhat so as to straighten the toggle. Pressure upon the elevator has then no tendency to raise the power end of the lever; but by lifting the lever slightly the weight on the elevator will contract the toggle and allow the jack to be removed from under the carriage. The toggle supports the elevator, and is so combined with the lever and so arranged as to be operated by it in either direction, backward or forward.

I construct the operative part of my invention by combining the toggle and lever in the manner indicated, so that the bending and straightening of the toggle shall depress and elevate the part *a*, and by fitting the lever with the sliding fulcrum. This I secure in a frame having the diagonal cross-bar *P*.

My invention may be made of wood or iron or any suitable material.

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

In the construction of lifting-jacks, the use of the toggle in conjunction with a lever with sliding fulcrum, for the purpose specified.

J. C. PLUMER.

Witnesses:

WILLIAM H. CLIFFORD,
HENRY WEBER.