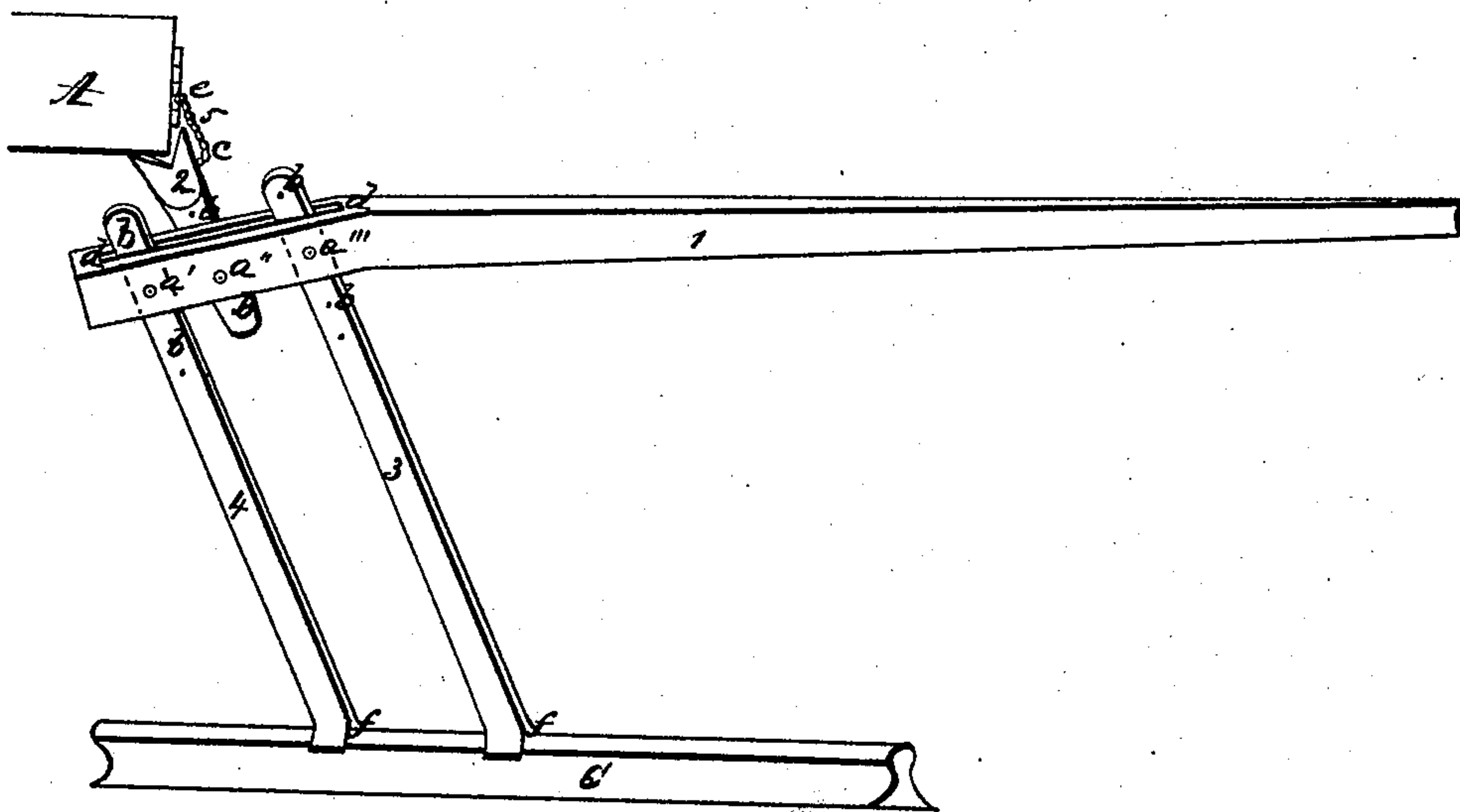


J. Noble,

Lifting Jack.

N^o 7,046.

Patented Nov. 19, 1867.



Witnesses:

A. H. C. M. S. W.
W. Wallace Walker.

Inventor:

Jay Noble.

United States Patent Office.

JAY NOBLE, OF ROCHESTER, NEW YORK.

Letters Patent No. 71,046, dated November 19, 1867.

LEVER FOR RAILROAD CARS.

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

Be it known that I, JAY NOBLE, of the city of Rochester, county of Monroe, and State of New York, have invented a new and useful instrument or machine known and entitled the "Motive-Power Lever," to be used in moving or propelling railroad engines and cars, and other heavy movable objects, by hand-power, &c.; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 represents a hand-lever, about six feet long, with a slit or opening perpendicular through the same, as shown in fig. 1, from letter *d* to *d*, with three horizontal holes through the same at letters *a' a'' a'''*, and through which bolts are inserted, to hold jack-head 2 and fulcrum 3 and 4 in their place.

Figure 2 represents a short fulcrum or jack-head, which is to be placed against or under the object to be moved, which is also held by bolt *a''*, and which can be raised or lowered as occasion may require.

Figures 3 and 4 represent two fulcrum, about three feet long, extending from lever 1 to the iron rail or ground below, with crotches at the bottom, as shown at letters *ff*.

Figure 5 represents a chain or rope attached to fig. 2 at the eye *e*, and connecting with the car A, or other object to be moved at letter *e*, for the purpose of holding the jack 2 to its place.

Figure 6 represents a section of an iron rail of a railroad track, upon which fulcrum 3 and 4 rest. Letter A shows part of a car to be moved, against which fulcrum or jack 2 rests or presses.

The operation of the machine is as follows: When placed in position, as above described, the operator takes hold of the lever 1, at or near the small end, and presses downward. This, by force of the power created by lever 1 and fulcrum 3, necessarily drives forward fulcrum or jack 2, which carries with it the object against which it rests; and as the small end of lever 1 goes down, fulcrum 4 rises and moves or swings forward, and when lever 1 is raised, fulcrum 3 is raised with it, and moves or swings forward in like manner. Thus, by moving the small end of lever 1 steadily up and down, like a pump-handle in the act of pumping, the object to be moved, by means of jack 2 and fulcrum 3, is kept in constant motion by the motive power of this machine. A car may be prevented from running back, or braced, by means of jack 2 and fulcrum 3 and 4, which, when the lever 1 is not in motion, act as a prop or stanchion. The jack 2 and fulcrum 3 and 4 may be lengthened or shortened by use of the holes *b* and the letters *a' a'' a'''*, and the crotches *ff* may be slight or deep, as use may dictate. The instrument or machine may be constructed of wood, iron, steel, brass, or other metal.

The object of my invention is to move heavy bodies, such as loaded freight or other cars by the use of this hand machine, which may very properly be styled "a one-man power."

Claim.

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

The lever 1, jack 2, and fulcrum 3 and 4, constructed and arranged as and for the purposes mentioned and set forth.

JAY NOBLE.

Witnesses:

A. K. AMSDEN,

W. WALLACE WALKER.