

(No Model.)

C. MORRILL.  
LIFTING JACK.

No. 477,771.

Patented June 28, 1892.

Fig. 1.

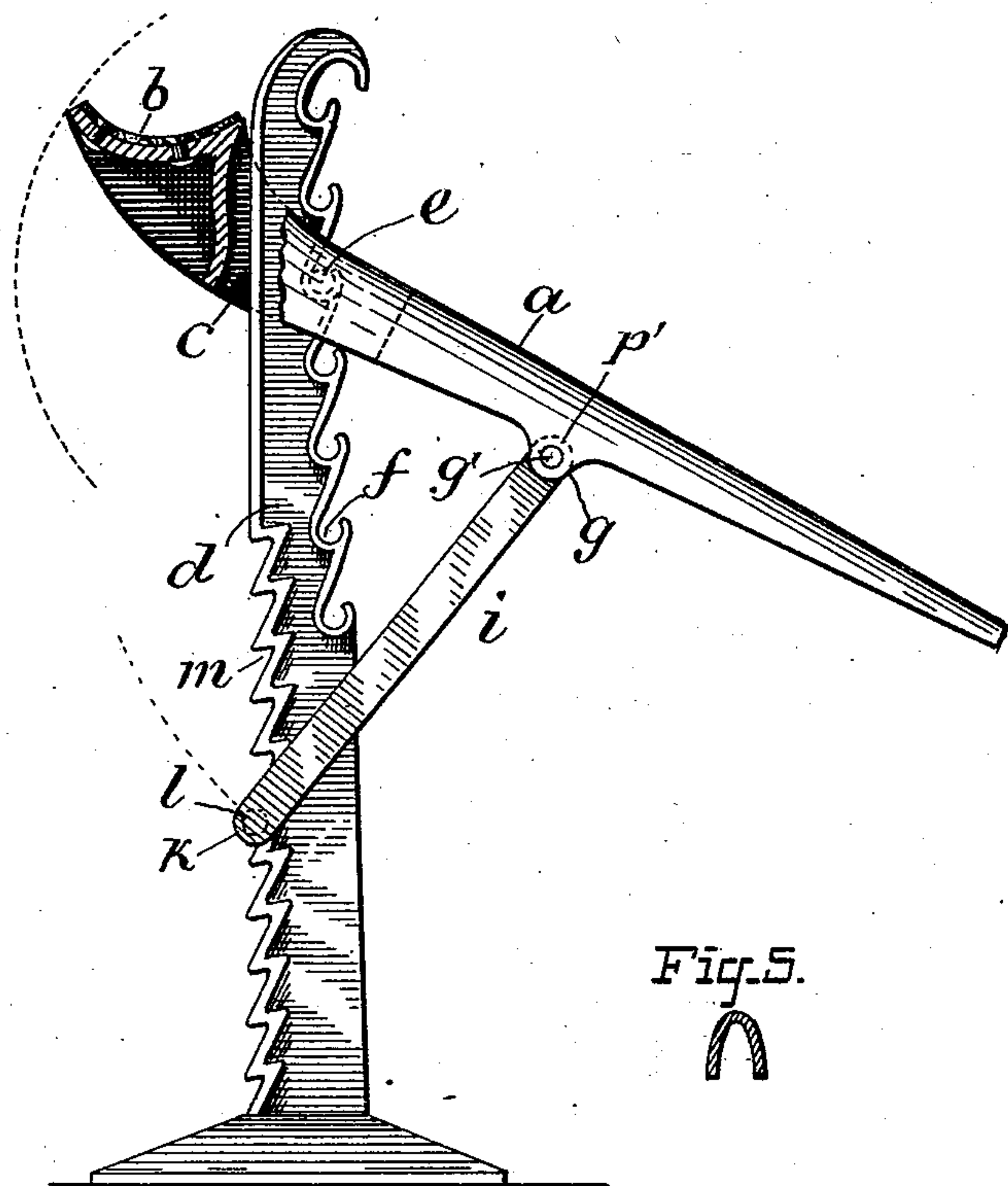


Fig. 2.

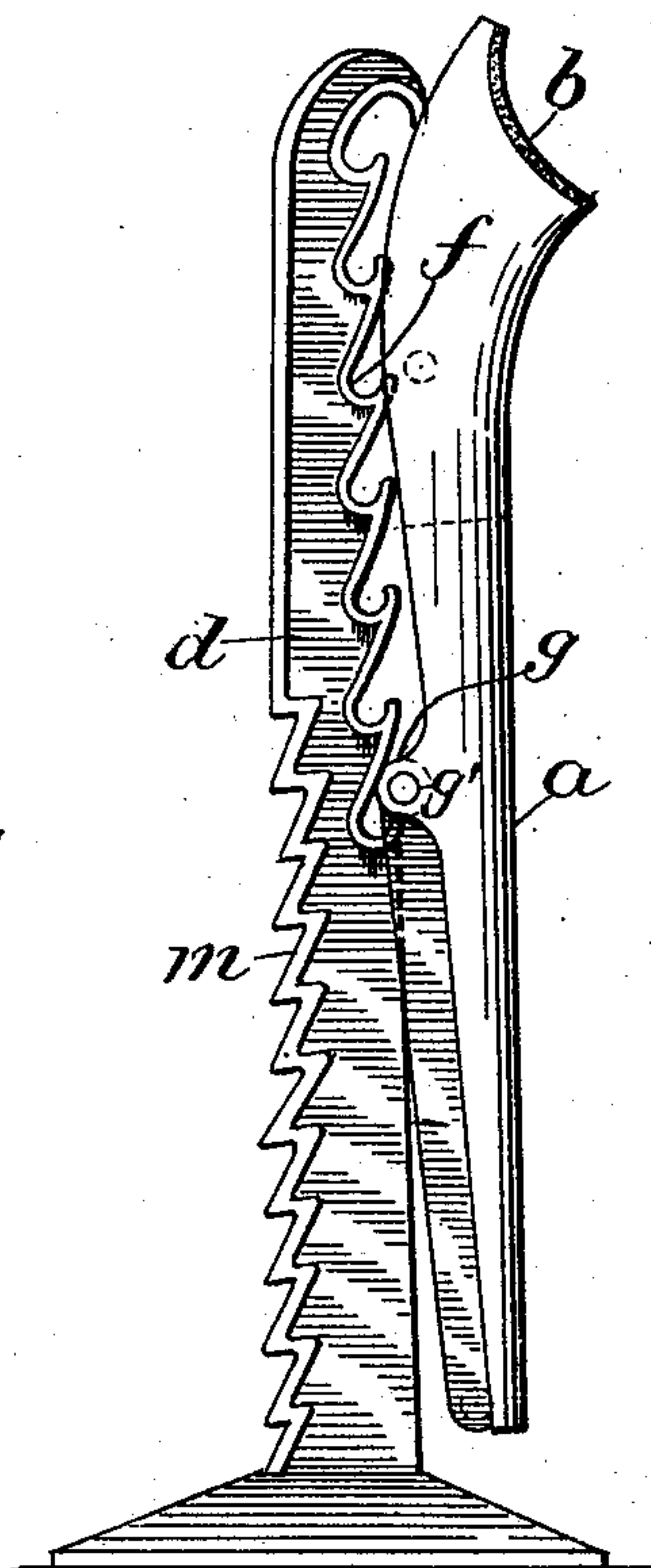


Fig. 5.

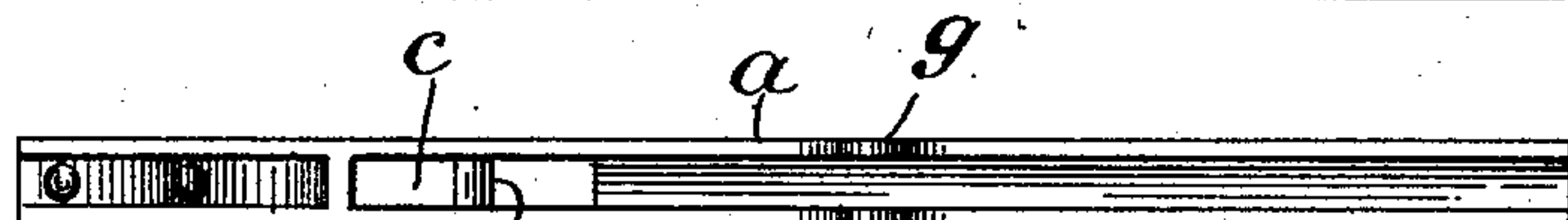


Fig. 3.

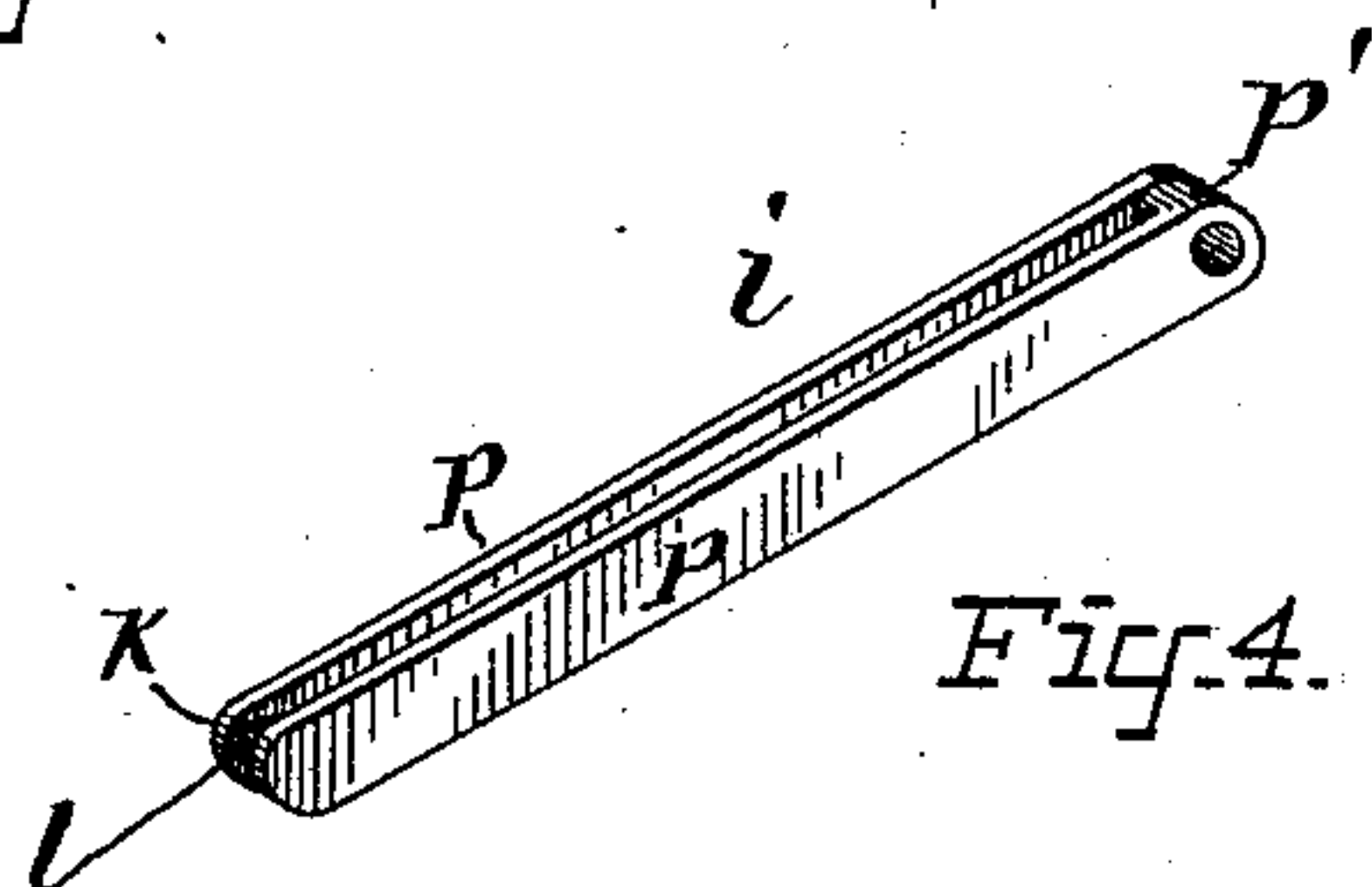


Fig. 4.

ATTEST:

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# UNITED STATES PATENT OFFICE.

CHARLES MORRILL, OF NEW YORK, N. Y.

## LIFTING-JACK.

SPECIFICATION forming part of Letters Patent No. 477,771, dated June 28, 1892.

Application filed April 20, 1892. Serial No. 429,833. (No model.)

*To all whom it may concern:*

Be it known that I, CHARLES MORRILL, a citizen of the United States, and a resident of New York, county and State of New York, have invented certain new and useful Improvements in Lifting-Jacks, of which the following is a specification.

My invention relates to improvements in the operating-levers for lifting-jacks, all of which will be fully described hereinafter.

Heretofore the levers made for lifting-jacks of the type herein referred to were composed of wood, and the brace-link thereof was usually connected therewith by means of a metal strap secured to the wood by means of screws, and the bearings of the fulcrum-pin were also arranged in the wooden body of the lever.

This construction of the lever has been found objectionable in many respects for the reason that constant use and exposure to different temperatures of weather would cause the wooden lever to become softened and to disintegrate from around the screws of the metal strap, and thereby accelerate their displacement, thus preventing the same from performing its function. The same objection may be attributed to the fulcrum-pin. The construction is also found to be cumbersome and ungainly. I propose to obviate these objections by my invention, which consists of a metal lever composed of certain mechanical combinations, which will be fully described in the specification and pointed out in the claim hereinafter.

In the drawings, Figure 1 represents a side elevation, partly broken away, of a lifting-jack in which my improved lever is fully illustrated. Fig. 2 represents the lever closed up and against the standard. Fig. 3 is an inverted plan view of the lever detached. Fig. 4 is a detached detail view of the brace-link. Fig. 5 represents a transverse section of the lever, in which is illustrated the conformation thereof.

Similar letters refer to similar parts throughout the drawings, in which—

*a* represents the lever, made of malleable iron. The extreme forward end of the lever aforesaid is provided with an enlargement forming, as it does, a seat *b*, which is provided

with a layer of leather or other suitable material secured thereto in order to form a cushion for the axle of a vehicle to rest upon. The lever *a* is also provided at or near its forward end with an elongated vertical opening *c*, adapted to slip over the upper end of the standard *d*, so that the fulcrum-pin *e* may engage with either of the correspondingly-shaped notches *f* of the standard aforesaid. The lever aforesaid is still further provided with depending ears *g*, integral therewith and adapted to receive the bearing-pin *g'*, the latter supporting the pin *p'* of the brace-link *i*, the other end *k* of which is provided with a rung *l*, integral therewith and is adapted to work in conjunction with either of the notches *m* of the standard *d*. It will be seen that the arms *p*, rung *l*, and pin *p'* of the brace-link may be cast in whole, and the pin *p'* can be cored out so that no machine-work will be required for the entire brace-link. The same may be said of the lever *a*.

It will be obvious that the construction of the lever and its brace-link herein shown places in the market a device which will be known for its lightness of weight, symmetry of form, durability of wear, and of greater strength than those of its kind heretofore used.

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

The combination, with the standard, of a metal lever having a seat at its extreme forward end and an elongated vertical opening, a fulcrum-pin arranged transversely therein and integral with the walls thereof, depending ears, also integral with said lever, a bearing-pin received by said ears, the brace-link, the pin integral with one end of said brace-link, and the rung integral with the other end of the same, substantially as shown and described.

Signed at New York, in the county of New York and State of New York, this 19th day of April, A. D. 1892.

CHAS. MORRILL.

Witnesses:

CHAS. E. HOTCHKISS,  
WM. A. COURTLAND.