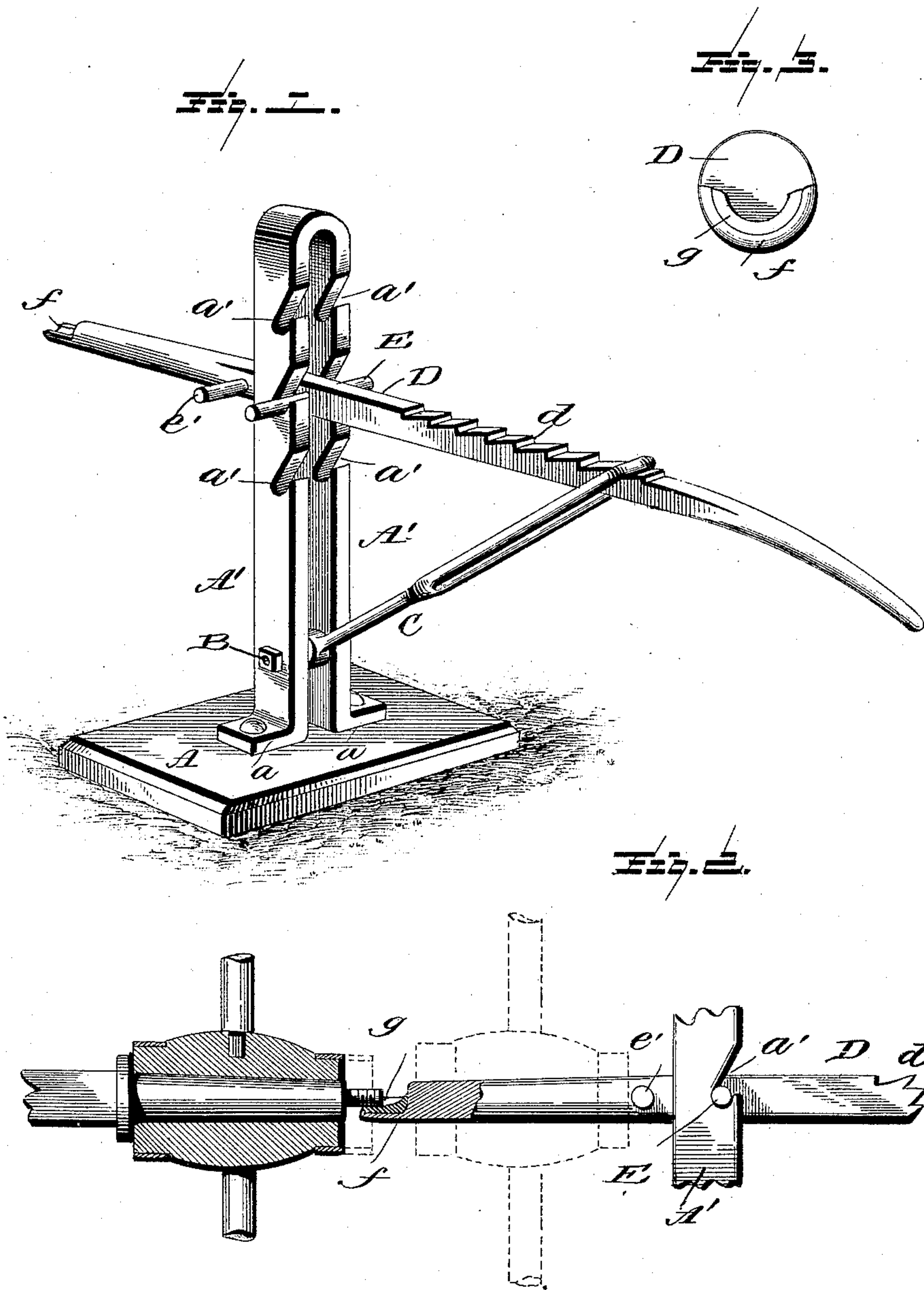


(No Model.)

E. GARREN.
LIFTING JACK.

No. 475,764.

Patented May 31, 1892.



Witnesses
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UNITED STATES PATENT OFFICE.

EDWARD GARREN, OF GLENWOOD, ILLINOIS.

LIFTING-JACK.

SPECIFICATION forming part of Letters Patent No. 475,764, dated May 31, 1892.

Application filed March 10, 1892. Serial No. 424,441. (No model.)

To all whom it may concern:

Be it known that I, EDWARD GARREN, a citizen of the United States, residing at Glenwood, in the county of Cook and State of Illinois, 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 of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters of reference marked thereon.

This invention relates to certain new and useful improvements in lifting-jacks; and it has for its objects, among others, to provide an improved lifting-jack which shall be simple, strong, durable, and efficient, and which is provided with means for receiving the wheel and supporting it clear of the axle while the same is being greased.

Other objects and advantages of the invention will hereinafter appear, and the novel features thereof will be specifically defined by the appended claim.

The invention is clearly illustrated in the accompanying drawings, which, with the letters of reference marked thereon, form a part of this specification, and in which—

Figure 1 is a perspective view of my improved lifting-jack. Fig. 2 is a detail, partly in side elevation and partly in section, illustrating the manner of use. Fig. 3 is an enlarged end view of the lever.

Like letters of reference indicate like parts throughout the several views.

Referring now to the details of the drawings by letter, A designates a suitable base, from which rise the parallel uprights A', formed, preferably, of a single piece of metal having its ends flanged, as seen at *a*, and secured to the base in any suitable manner, the piece being bent upon itself, as seen in Fig. 1, and the edges of the two uprights upon one face are provided with inclined notches *a'*, as shown, for a purpose which will soon be made apparent.

B is a horizontal pin held between the uprights near the lower end, and upon this pin is pivoted the bar C, the outer portion of which is in the form of an elongated loop.

D is the lever, provided upon its upper face between its ends with a plurality of notches or teeth *d*, as seen in Fig. 1. This lever is

provided with the transverse pin E, which forms the fulcrum, which may be placed in any one of the notches in the uprights to vary the height, and the lever is further provided with a transverse pin *e'*, which is removable, as may also be the pin E, and serves as a stop to prevent displacement of the lever during its operation. The acting end of the lever is formed with a concave portion *f*, the upper face of which is provided with a coating of lead or some similar soft material *g* to prevent injury to the sand-band or any part with which it may come in contact.

The operation will be apparent. The parts are assembled as seen in Fig. 1, the nut is removed from the axle, and the concave end of the lever is engaged under the threaded end of the axle, as seen in Fig. 2, and the other end of the lever depressed sufficiently to raise the wheel when the loop is engaged with a tooth of the lever to hold the parts in the adjusted position. The wheel is then slipped along on the tapered end of the lever, as seen by dotted lines in Fig. 2, and the bearing oiled or greased, and then the wheel is slid back to its proper position, as seen in full lines.

The outer end of the loop of the bar C may be sharpened to form a sort of pawl to engage the teeth of the lever.

What I claim as new is—

The lifting-jack described, consisting of a base, uprights formed of a single piece of metal having a bend at its center and the ends flanged and secured to the base, with the edge provided with notches, a removable lever with cross-pins and tapered portion to receive the hub of a wheel and notched upon its upper face, and a bar C, pivoted between the uprights near the base and having an elongated loop embracing the lever and engaging its notches, the lever being formed with concave end portion to engage the threaded end of an axle and provided with a coating of soft metal, substantially as and for the purpose specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

EDWARD GARREN.

Witnesses:

CHAS. H. WORRELL,
CLARK NOLBROOK.