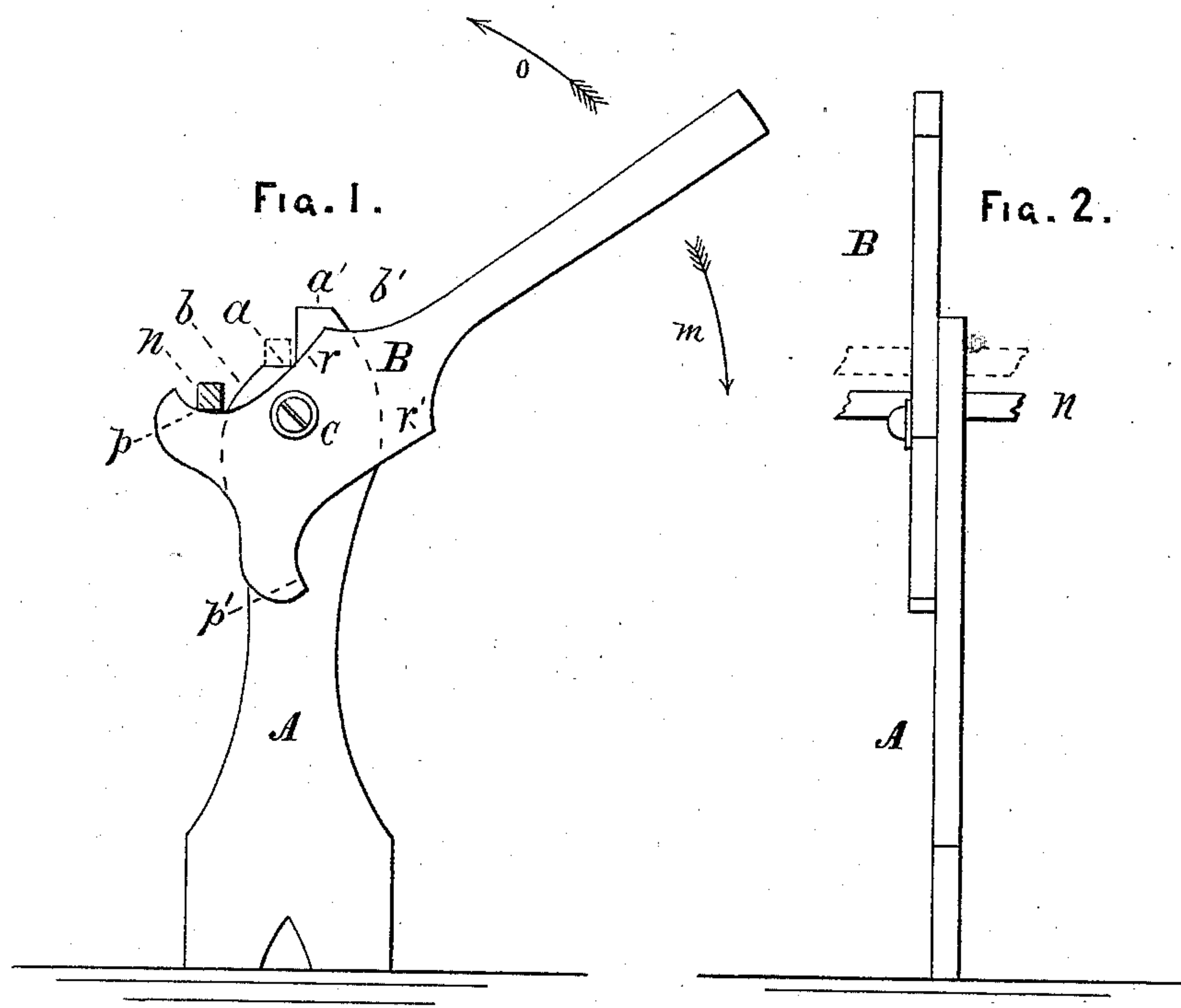


L. M. CUTTING.
Lifting-Jacks.

No. 157,738.

Patented Dec. 15, 1874.



WITNESSES

Thos. Wade
L. J. Casavant

INVENTOR

Leonard M. Cutting

UNITED STATES PATENT OFFICE.

LEONARD M. CUTTING, OF JERSEYVILLE, ILLINOIS.

IMPROVEMENT IN LIFTING-JACKS.

Specification forming part of Letters Patent No. **157,738**, dated December 15, 1874; application filed September 7, 1874.

To all whom it may concern:

Be it known that I, LEONARD M. CUTTING, of Jerseyville, in the county of Jersey and State of Illinois, have invented a new and Improved Lifter for Carriages and Wagons; and I do hereby declare that the following is a full and exact description of the same, reference being had to the accompanying drawings and to the letters of reference marked thereon.

The object of this invention is a lifter for carriages and wagons of novel and improved construction, adapted for lifting the axle-tree of any ordinary wheeled vehicle, for the purpose of removing the wheel, lubricating and washing the latter, or any of the purposes for which devices of its class are usually employed. Further, the lifter being unusually simple, light, and compact, it can be carried without inconvenience under the seat of a light buggy, and thus be always available in the event of any emergency requiring its use.

In the drawings, Figure 1 is a side elevation of the lifter, and Fig. 2 is an edge view of the same.

A, Fig. 1, represents a standard, preferably made of wood, the upper extremity of which is shaped so as to form two rests, *a a'*, approached by sloping edges *b b'*. To the side of this standard is pivoted, at about the point C, a hand-lever, B, the short end of which terminates in two curved projections, *p p'*, the latter forming continuations of the shoulders *r r'*, the long end of the lever being shaped to form a handle, by which the lifter is operated.

The implement is used in the following manner: The axle to be raised being in the position shown at *n*, Fig. 1, the lifter is placed under the axle, as there indicated; then, by depressing the long arm of lever B in the direction of the arrow *m*, the axle is made to slide by the curvature of the lifting projection *p*, upward and against the curved edge *b* of the standard A, and thence upon the rest *a*. The axle being thus placed is entirely independent of the lever B, and, consequently, no locking device for securing the latter is needed.

The operation of removing the axle from the rest is equally simple and expeditious, and is

effected by operating the lever B in the contrary direction to that by which the axle is raised.

The movement of the lever B, as indicated by the arrow O, will obviously push, by means of the shoulder *r*, the axle from its rest *a*, and thus liberate the standard.

In order to adapt this lifter for raising axles of various heights, the standard A is provided with a second rest, *a'*, any convenient height above the first.

When it is required to use this rest, the lever B is simply turned over, so as to bring the curved projection *p'* under the axle. The edge *r'* of the lever B being adapted to the curved edge *b'* and rest *a'* in precisely the same manner as that described in reference to the opposite side, it follows that, whichever side of the lifter be used, the operation and action will be strictly similar.

This lifter is designed to admit easily of such modification in form as will adapt it to special uses or individual convenience. For instance, when so preferred, the standard A may be provided with only one rest, as at *a*, and the lever B may be correspondingly modified in form; or the standard may be provided with more than two rests, and also a series of holes for the reception of the pivot C, so as to admit of the lever B being brought into proper position for use in connection with either of the rests.

By the foregoing details it will be seen that this lifter is at once light, powerful, and cheap, and, therefore, available alike for general purposes, and the use of those who would object to a more expensive and more cumbersome implement of its class.

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

The lever described, provided with the shoulder *r* and curvature *p*, in combination with the standard having the curvature *b* and rest *a*, as described.

This specification signed and witnessed this 4th day of September, 1874.

LEONARD M. CUTTING.

Witnesses:

FRED. L. THOMSON,

WILLIAM H. STOECKEL.