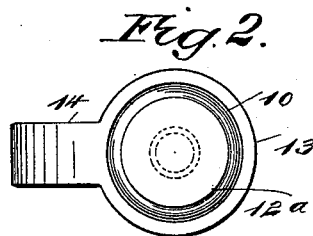
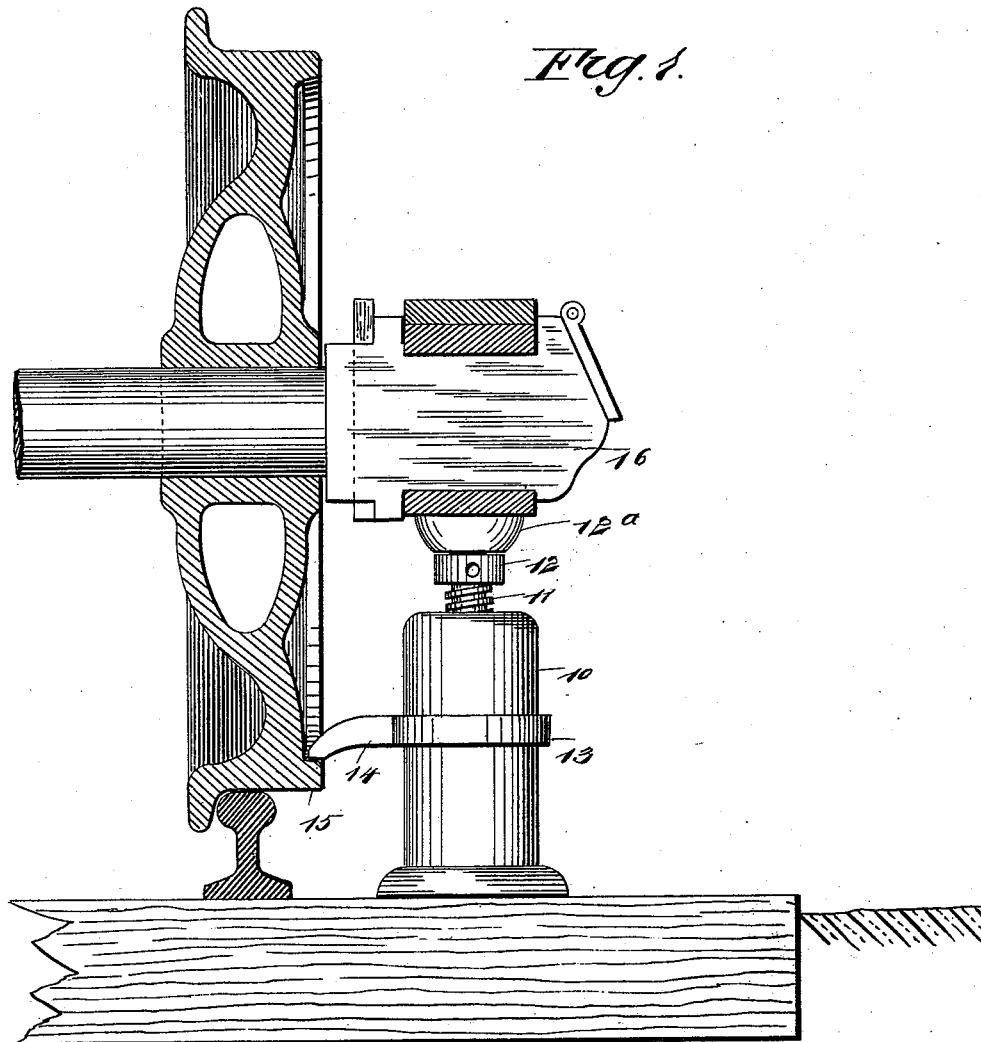


(No Model.)

A. A. SMITH.
LIFTING JACK.

No. 523,871.

Patented July 31, 1894.



WITNESSES:

W. McArthur
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INVENTOR

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BY

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ATTORNEYS.

UNITED STATES PATENT OFFICE.

ALLAN A. SMITH, OF GRAND ISLAND, NEBRASKA.

LIFTING-JACK.

SPECIFICATION forming part of Letters Patent No. 523,871, dated July 31, 1894.

Application filed March 16, 1894. Serial No. 503,872. (No model.)

To all whom it may concern:

Be it known that I, ALLAN A. SMITH, of Grand Island, in the county of Hall and State of Nebraska, have invented a new and Improved Lifting-Jack, of which the following is a full, clear, and exact description.

My invention relates to improvements in lifting jacks, and particularly to jacks which are adapted for railroad use in lifting the journal boxes of cars to enable the brasses to be removed, although the jack may be used for ordinary lifting purposes. In using the ordinary jack for raising the journal box, the wheel is apt to rise off the rail as the box is jacked up, the wheel rising on account of the heavy load on the opposite end of the axle, this causing a good deal of annoyance and delay; and the object of my invention is, in a great measure, to produce a very simple and strong jack which will hold the wheel to the rail when the journal box is lifted, also to produce a very simple means of accomplishing this result.

To these ends my invention consists of a lifting jack, the construction of which will be hereinafter described and claimed.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar figures of reference indicate corresponding parts in both the views.

Figure 1 is a side elevation of my improved jack as applied to a journal box and wheel, the latter and its rail being shown in section; and Fig. 2 is a plan view of the jack.

The jack is provided with a suitable base 10 into which is threaded the screw 11, this operating in the usual way and having the customary block 12 with holes therein to re-

ceive a lever by which it may be turned, and the screw has at the top the usual bearing plug 12^a. So far then the jack is substantially like an ordinary jack, except that its base is of a little different shape, being generally cylindrical, and the jack may be used in any customary way. My improvement, however, lies in the ring 13 and the projecting flange 14. This ring fits snugly on the base 10, but may be moved up and down freely when no pressure is applied to the flange. The flange 14 projects laterally and is preferably turned downward somewhat, as shown in Fig. 1, so that it may readily engage the rim of the car wheel 15.

In lifting the journal box, the jack is applied to the box, as shown in Fig. 1, and the ring 13 adjusted so that the flange 14 engages the rim of the car wheel 15. Then when the jack is turned up to lift the journal box, the pressure of the wheel on the flange 14 causes the ring 13 to bind sufficiently to prevent it from slipping and the wheel is held on the rail.

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

A lifting jack for the purpose specified consisting of an elongated body or base, a lifting device connected therewith, a ring which is slidable vertically on said base and provided with a lateral flange adapted to engage the rim of a car wheel, as and for the purpose specified.

ALLAN A. SMITH.

Witnesses:

THOMAS ROBINSON,
JACOB SCHREINER.