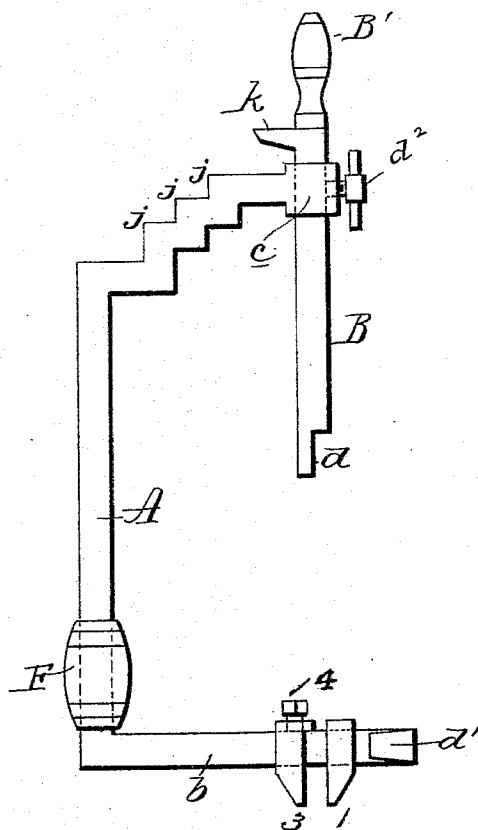


(No Model.)

W. H. JONES & T. C. GREENE.
WAGON JACK.

No. 494,957.

Patented Apr. 4, 1893.



Witnesses
 E. Nottingham
 G. F. Downing

Inventors
William H. Jones &
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UNITED STATES PATENT OFFICE.

WILLIAM H. JONES AND THOMAS C. GREENE, OF LIBERTY, INDIANA, ASSIGNORS OF ONE-HALF TO DANIEL T. SNYDER AND ANDREW W. SNYDER, OF SAME PLACE, AND SAID GREENE ASSIGNOR, BY MESNE ASSIGNMENTS, TO SAID DANIEL T. SNYDER.

WAGON-JACK.

SPECIFICATION forming part of Letters Patent No. 494,957, dated April 4, 1893.

Application filed March 18, 1891. Serial No. 385,513. (No model.)

To all whom it may concern:

Be it known that we, WILLIAM H. JONES and THOMAS C. GREENE, of Liberty, in the county of Union and State of Indiana, have
5 invented certain new and useful Improvements in Wagon-Jacks; and we do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it ap-
10 pertains to make and use the same.

Our invention relates to an improvement in wagon jacks, the object being to provide simple means for the removal of a wheel and the support of the axle while the latter is being
15 oiled, and it consists in certain novel features of construction and combinations of parts which will be hereinafter described and pointed out in the claim.

The accompanying drawing is a view in elevation of our improved wagon jack.

A represents the body or main portion of the jack. This is made of metal of sufficient strength to withstand the usual weight and strain to which articles of this character are
25 subjected, and it is preferably bent substantially as shown to form a series of steps or angular portions *j* at one end and an arm *b* at the other end. The arm *b* terminates at its free end preferably in a hook *d'* adapted
30 to fasten over the axle just inside of the axle-skein, and the opposite end terminates in a bearing or box *c*. A spindle *B* passes loosely through this bearing or box *c*, it having a handle *B'* on its outer end by which it is grasped
35 in order to slide, turn, or otherwise manipulate it, and on its inner end the spindle is furnished with a shoulder or rest *d* in which to receive or have rest the extreme outer end of the axle so that the axle is supported by the
40 hook and shoulder and the spindle is in alignment with the axle skein, in position to receive the wheel when it is desired to slide the latter from the axle. Thus if desired the jack may be used in this way to remove the wheel.

Again we have provided the steps *j* in order that the outer end of the axle may be raised in the old fashioned way, and the proper notch on the jack placed beneath it. The notches *j* shown in the body of the jack are ordinarily sufficient for this purpose, but in
50 addition to them we provide a shoulder *k* on the spindle which is higher than the shoulders on the body of the jack and which may be raised still higher and as high as desired by simply pulling outward on handle *B'* and then
55 fastening the spindle by means of set screw *d''*.

For convenience in removing the nut or burr, a wrench is preferably located on arm *b*. This consists of the fixed jaw 1, the slide jaw 3 and the set screw 4. A handle *F* is also
60 loosely mounted on the body of the jack and which is adapted to be grasped in one hand whereby to turn the jack when the wrench is being used and the nut turned.

It is evident that slight changes might be
65 resorted to in the form and arrangement of the several parts described without departing from the spirit and scope of our invention, and hence we do not wish to limit ourselves to the exact construction herein set
70 forth, but

Having fully described our invention, what we claim as new, and desire to secure by Letters Patent, is—

A combined tool comprising the frame having a series of steps at one end and a hook at the other end, an adjustable spindle adapted to receive the end of the axle, said spindle having an auxiliary step, substantially as set forth.
80

In testimony whereof we have signed this specification in the presence of two subscribing witnesses.

WILLIAM H. JONES.
THOMAS C. GREENE.

Witnesses:

DANIEL T. SNYDER,
A. W. SNYDER.