

June 9, 1925.

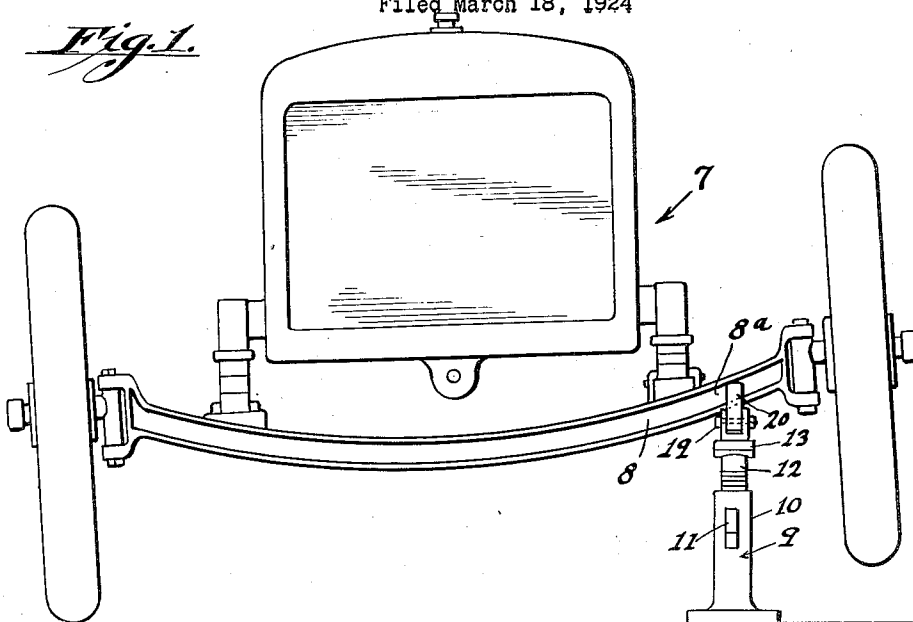
1,541,306

E. A. YOUNG

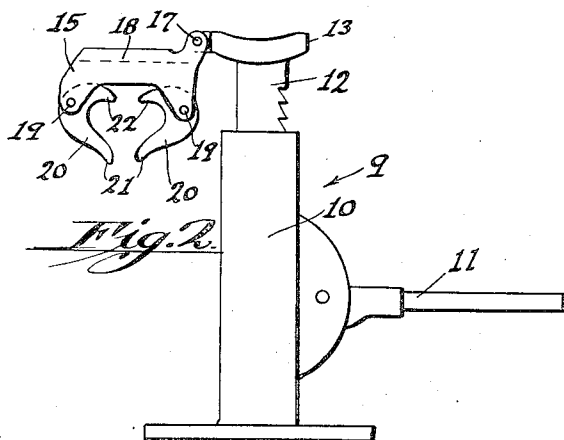
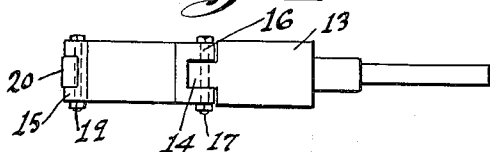
AUTOMOBILE JACK

Filed March 18, 1924

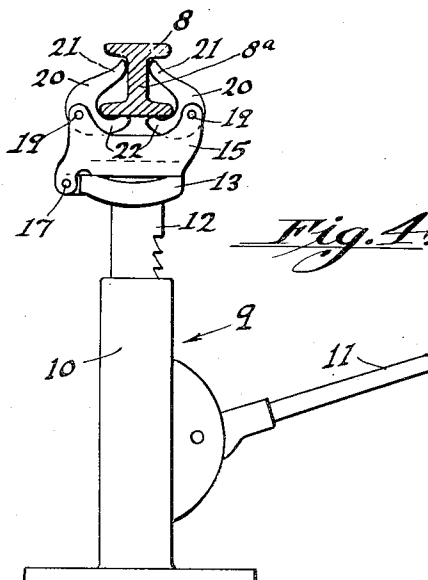
*Fig. 1.*



*Fig. 3.*



*Fig. 2.*



*Fig. 4.*

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# UNITED STATES PATENT OFFICE.

ERICK A. YOUNG, OF LOS ANGELES, CALIFORNIA.

## AUTOMOBILE JACK.

Application filed March 18, 1924. Serial No. 700,032.

*To all whom it may concern:*

— Be it known that I, ERICK A. YOUNG, a citizen of the United States, residing at Los Angeles, in the county of Los Angeles and State of California, have invented new and useful Improvements in Automobile Jacks, of which the following is a specification.

This invention relates to jacks, and more particularly it relates to means attached to the lifting member of a jack.

An object of this invention is the provision of a jack having non-slipping means for gripping a body to be lifted.

Another object of this invention is the provision of a jack having gripping means for tightening as the weight on the jack increases.

A further object of this invention is the provision in a jack of a combination with a lifting member of the jack, of non-slipping means for gripping a curved body.

With the foregoing objects in view, together with such other objects and advantages as may subsequently appear, this invention consists in the construction and arrangement of parts hereinafter described and claimed and illustrated in the accompanying drawings, in which:

Figure 1 is an end view of an automobile having a curved axle, showing the automobile jacked up on one side by the jack of my invention,

Fig. 2 is an elevational view of my improved jack comprising a gripping member hinged to the top of the lifting member of the jack and shown in thrown-back position,

Fig. 3 is a plan view of the jack shown in Fig. 2, and

Fig. 4 is a view of the jack shown in Fig. 2 with the gripping member shown in active position and gripping an I-shaped axle.

Referring to the drawings for a more detailed description thereof, the numeral 7 indicates an automobile having a curved front axle 8 of I-shape cross section. The numeral 9 indicates a jack comprising a body portion 10, a lever 11 and a lifting member or bar 12. The lifting bar 12 has a head 13 provided with a lug 14, to which is hinged a member 15 by means of a bolt 16, to the ends of which are secured nuts 17. The member 15 is adapted to be swung to one side of the lifting member 12 when it is desired to use the jack with the head 13 in

engagement with the body to be lifted, as shown in Fig. 2, and may be swung over on to the head 13, as shown in Fig. 4, when the member 15 and the parts mounted on it are to be employed in moving a body. The member 15 is provided with a longitudinal recess 18 between its sides. Rotatably mounted on the member 15 by means of pins 19 is a pair of dogs 20. The pins 19 extend transversely across the recess 18 and are positioned one near each end of the recess and above the bottom of the same.

The dogs 20 are constructed alike and each comprises an upper claw 21 and a lower claw 22. The lower portion of each dog 20 is adapted to move into, or out of, the recess 18. Fig. 4 shows the claw 22 in contact with the under side of the I axle 8, and the claw 21 gripping the web 8<sup>a</sup> of the I axle.

It will be understood that as the weight on a jack of my invention increases, the gripping action of the dogs 20 will increase; for as the vertical force on the claw 22 increases, such force is transmitted to the claw 21 and applied in horizontal direction.

It will also be seen according to the construction described, that I have provided means for gripping the body to be lifted, and that when my jack is applied to a curved body, such as the axle 8, for example, the same will be held in the jack without slipping.

While I have herein described one form of my invention, modifications thereof may be devised without departing from the spirit thereof, and it is to be understood that such modifications come within the scope of this invention.

What is claimed is:

1. In a jack, a lifting member having mounted thereon a pivoted jaw, said jaw having a portion engageable beneath the body to be lifted, and a second portion engageable upon the side of the body to be lifted when the first mentioned portion is pressed downwardly.

2. In a jack, the combination with the lifting member of non-slipping means for gripping the body to be lifted, said means being adapted to tighten on said body as the weight on the jack increases, said means including dogs pivotally mounted to swing to and from each other.

3. In a jack, a lifting member having mounted thereon a pair of opposed pivoted

jaws, each jaw having a portion engageable beneath the body to be lifted and a second portion engageable upon the side of the body to be lifted when the first mentioned portion is pressed downwardly.

4. In a jack, the combination with the lifting member of non-slipping means for gripping the body to be lifted, said means comprising a head pivoted to the lifting member, said head carrying a pair of dogs mounted to swing to and from each other and being adapted to tighten on said body as the weight on the jack increases and to be moved out of position for engagement with said body, leaving the lifting member to engage the body.

5. In a jack, the combination with the lifting member of non-slipping means for gripping the body to be lifted, said means being adapted to tighten on said body as the weight on the jack increases, said means comprising a pair of dogs.

6. In a jack, the combination with the lifting member of non-slipping means for gripping the body to be lifted, said means being adapted to tighten on said body as the

weight on the jack increases, said means comprising a pair of dogs, each rotatable.

7. In a jack, the combination with the lifting member of non-slipping means for gripping a curved body, said means comprising a pair of dogs operated by the weight of the curved body.

8. In a jack, the combination with the lifting member of non-slipping means for gripping the body to be lifted, said means being adapted to be moved out of position for engagement with said body, leaving the lifting member to engage the body, said means comprising a pair of dogs, each rotatable and operated by the weight of the body to be lifted.

9. In a jack, the combination with the lifting member of a member hinged to the lifting member and a pair of oppositely disposed dogs rotatably mounted on the second mentioned member and operated by the weight of the body to be lifted.

In testimony whereof I have signed my name to this specification.

ERICK A. YOUNG.