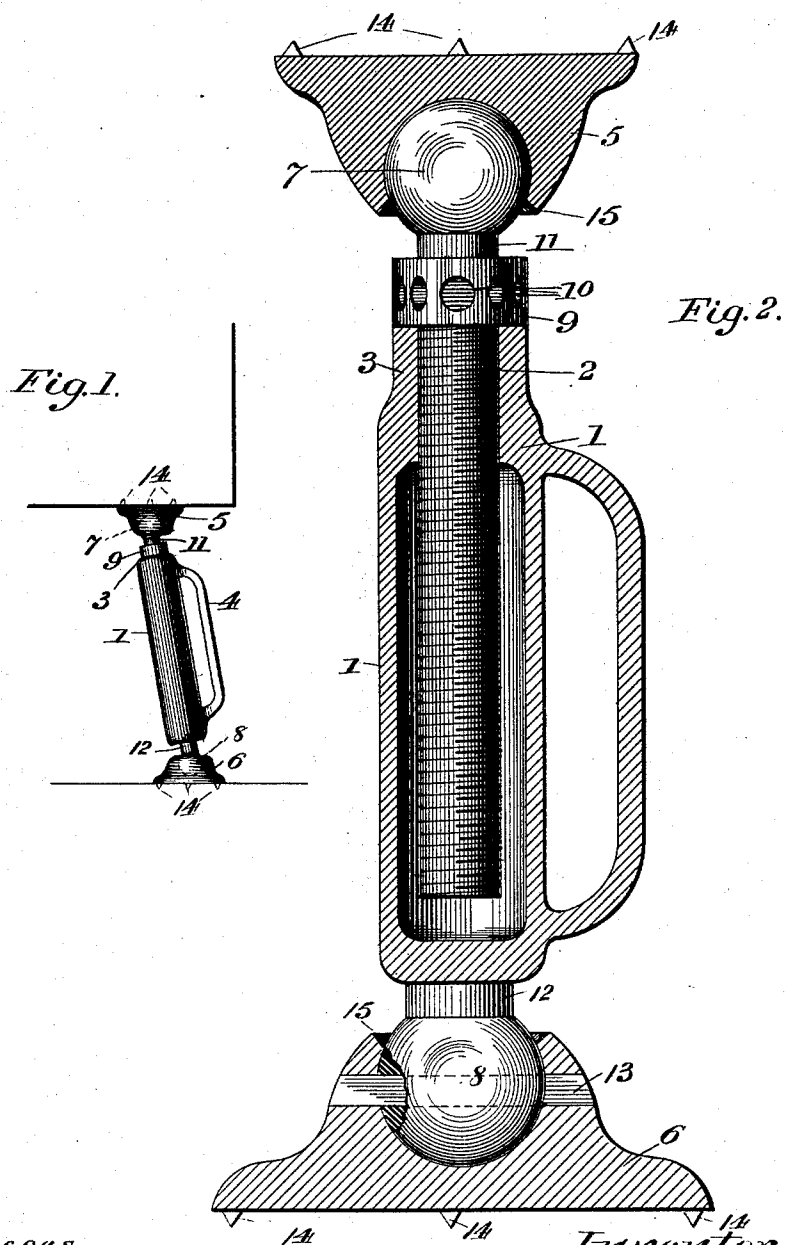


(No Model.)

W. JEWELL.
CAR JACK.

No. 524,440.

Patented Aug. 14, 1894.



Witnesses:
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UNITED STATES PATENT OFFICE.

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CAR-JACK.

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To all whom it may concern:

Be it known that I, WILLIAM JEWELL, a citizen of the United States, and a resident of Cleveland, county of Cuyahoga, State of Ohio, have invented certain new and useful Improvements in Car-Jacks, of which I hereby declare the following to be a full, clear, and exact description, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to certain improvements in lifting jacks and more especially to that class of such devices which are employed for replacing derailed cars, &c., upon the track and for like purposes, and the object of the invention is to provide a device of this character of a simple and inexpensive construction which shall present certain features of novelty and utility over other jacks heretofore in use, all as will be more fully herein-after set forth.

The novel features of my invention will be carefully defined in the claims.

In order that my invention may be the better understood I have illustrated in the accompanying drawings a jack embodying my improvements, in which drawings—

Figure 1 is an elevation showing the jack in position for use and Fig. 2 is an axial section of the jack drawn to an enlarged scale, the screw thereof being seen in elevation.

In the views 1 represents a casing having a longitudinal bore provided with a contracted end 3, which is interiorly screw-threaded and serves for the reception of the screw-threaded stem 2, the upper end of which is provided with an enlarged ball 7, fitting a socket in the plate 5. At its base, the casing 1 is provided with a contracted solid neck 12, and beyond said neck with a head 8, also in the form of a ball and fitting a socket formed in the socket plate 6, as clearly seen.

The socket plates 5 and 6 will be by preference cast upon the balls 7 and 8, for the sake of economy and strength and will be provided with overhanging lips 15, serving to embrace the balls and with teeth 14, adapted to enter the surfaces against which the jack is braced, in order to prevent displacement of the device when once placed in position.

At its upper end the screw-threaded stem 2 is provided with a collar 9, provided with apertures 10, for the insertion of pins whereby it may be turned, and between said collar 9 and the ball 7, said stem is provided with a neck 11, of a diameter substantially equal to that of the neck 12 of the casing, said necks 11 and 12 serving to receive the overhanging lips 15 of the socket plates when the jack is set at an angle as seen in Fig. 1.

The casing or body 1 of the jack is provided with a handle 4, whereby it may be held while being adjusted under the load, and the lower socket plate 6 is provided with a transverse passage 13, intersecting the socket therein, and adapted to co-incide with a transverse passage formed through the ball 8 and to receive a pin (not shown) whereby the said socket plate 6 and ball 8 may be locked together, when it is desired to use the jack in an erect position. By this construction it is obvious that the body of the jack may be arranged in a vertical position under the load, or may be set at any desired angle whereby the load may be raised and moved laterally at the same time. Moreover, the provision of the handle 4 renders the device very easily manipulated, as will be readily understood.

Having thus described my invention, I claim—

1. The combination in a lifting jack, of a casing having a longitudinal bore extending partially through it, the upper end of said bore being contracted and screw threaded, and the lower end of said casing being provided with a contracted solid neck and an enlarged ball, a stem provided with a screw threaded lower end adapted to engage the screw threaded portion of said bore, said stem being provided with a collar arranged above said screw threaded portion, and with an enlarged ball at its upper end, said collar and ball being separated by a neck, and socket plates provided with sockets adapted to receive the balls on the stem and casing, said plates being also provided with overhanging lips arranged about the edges of said sockets, whereby said balls are held in place, substantially as set forth.

2. In a lifting jack, the combination with a

casing having an interiorly screw threaded bore and having at its lower end a contracted solid neck and a ball of larger diameter than said neck, of a stem having a screw threaded lower portion adapted to screw into said bore of the casing, said socket plate and ball being provided with transverse co-inciding ap-

ertures adapted to receive a pin, whereby said ball and socket plate may be locked together, substantially as set forth.

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