

Aug. 20, 1935.

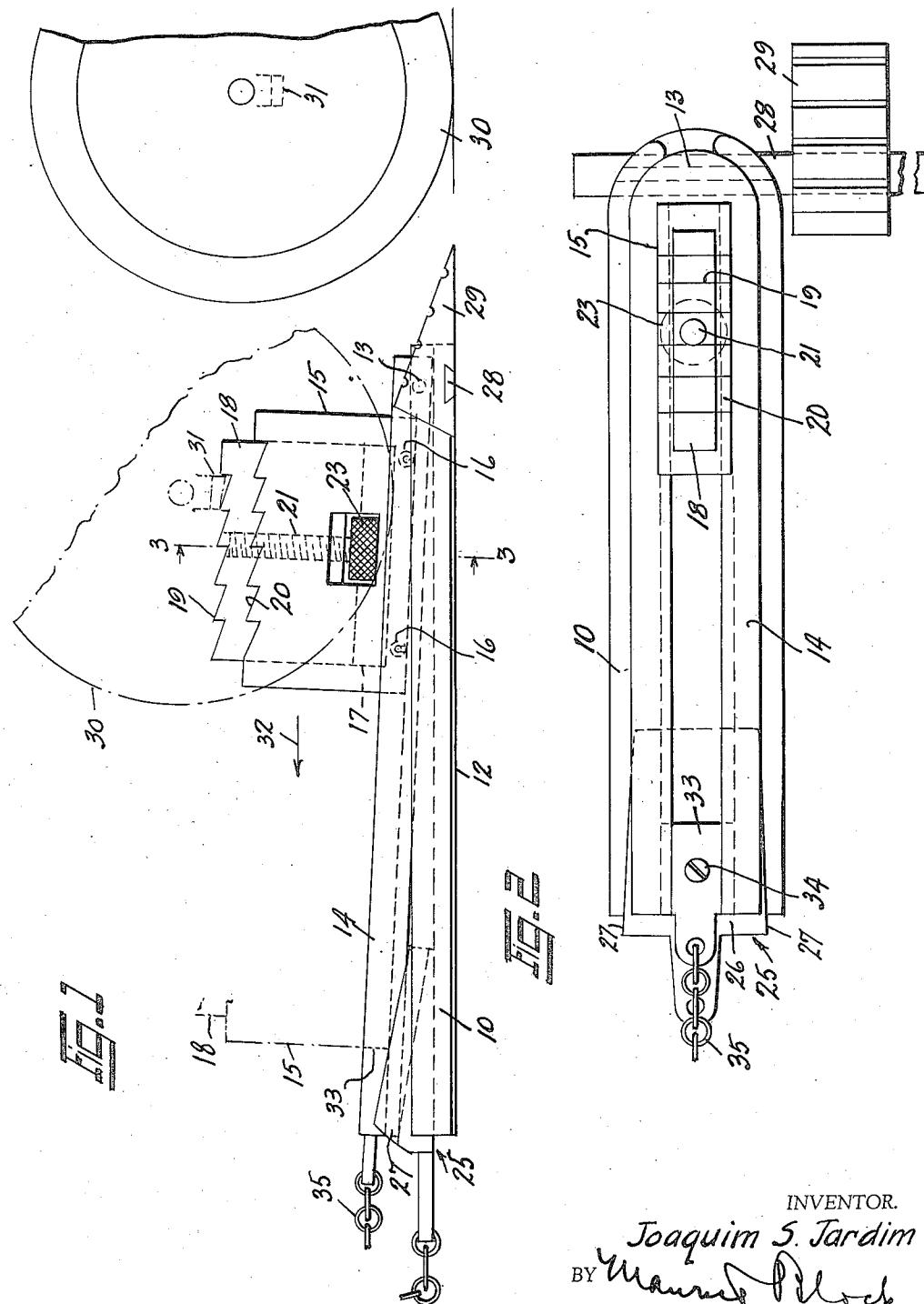
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2,011,933

JACK

Filed April 29, 1935

2 Sheets-Sheet 1



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FIG. 3

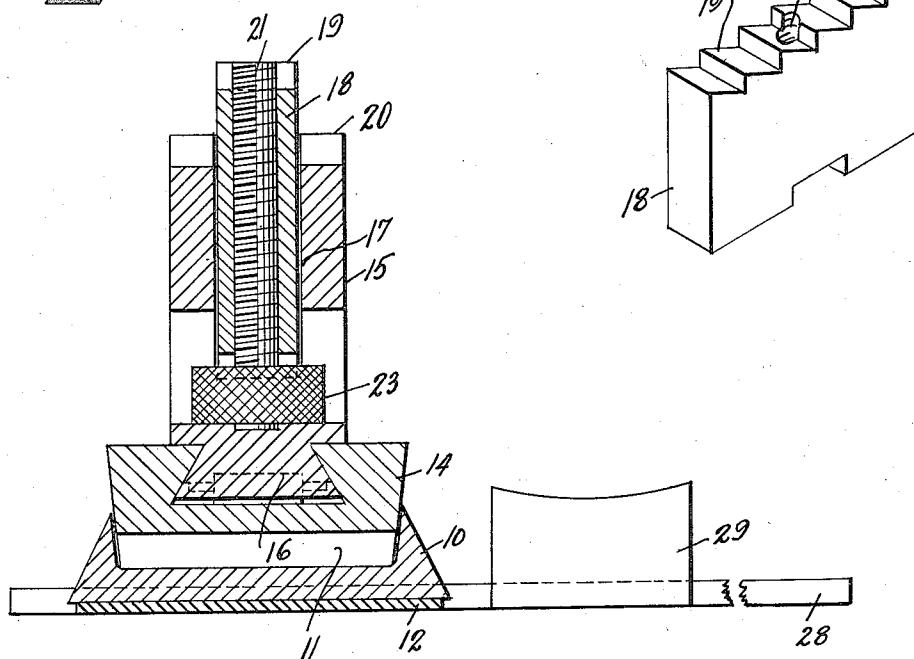


FIG. 4

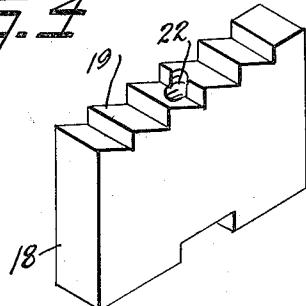


FIG. 5

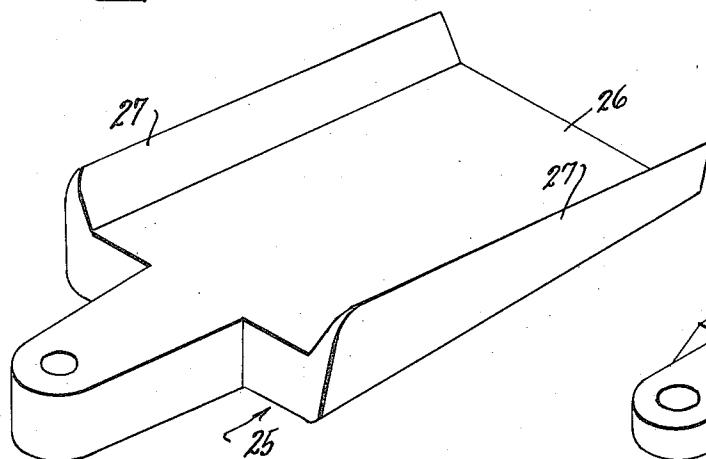
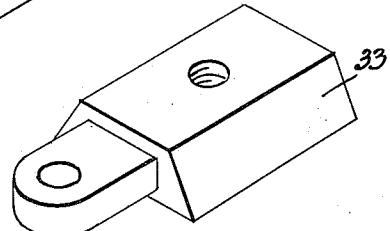


FIG. 6



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UNITED STATES PATENT OFFICE

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5 Claims. (Cl. 254—88)

This invention relates to lifting devices or jacks and has for one of its objects the provision of such a device with which the wheels of an automobile or other vehicle may be lifted off the ground by rolling or driving the said vehicle over a ramp forming a part of the jack.

Another object of the invention is the provision of such a device which may be adjusted to any required height without the operator having to lift the weight of the vehicle off the ground.

A further object of the invention is the provision of a jack of this character in which several points of adjustment are provided.

A still further object of the invention is the provision of such a jack, comprising a ramp, tapered block, or runway upon which a wheel of a vehicle may be driven by its own power and a jack block to receive and support the vehicle with one or more wheels off the ground so that the said wheel or wheels may be removed or replaced.

Another object is to produce a device of the character described in which the maximum simplicity of construction and operation is secured.

Other objects and advantages will appear as the nature of the improvements is better understood, the invention consisting substantially in the novel arrangement and co-relation of parts herein fully described and illustrated in the accompanying drawings, wherein similar reference characters are used to describe corresponding parts throughout the several views, and then finally pointed out and specifically defined and indicated in the appended claims.

The disclosure made the basis of exemplifying the present inventive concept suggests a practical embodiment thereof, but the invention is not to be restricted to the exact details of this disclosure, and the latter, therefore, is to be understood from an illustrative, rather than a restrictive standpoint.

The inventive idea involved is capable of receiving a variety of mechanical expressions, one of which, for the purpose of illustration, is shown in the accompanying drawings, in which—

Figure 1 is a side view in elevation of my improved jack.

Figure 2 is a top plan view thereof.

Figure 3 is a sectional view at a larger scale than Figures 1 and 2, taken on line 3—3, Figure 1.

Figure 4 is a perspective view of the adjustable weight supporting block.

Figure 5 is a perspective view of the combined adjusting wedge and guide, and

Figure 6 is a perspective view of the stop for

the supporting block and its slide or carriage. Referring now to the drawings in detail 10 indicates a base which is preferably centrally channelled as at 11, the said channel extending the entire length thereof. If desirable, a rubber pad 12 may be provided at the bottom of the said base. Pivotally mounted at 13 on the base 10 is a slideway 14 in which there is slidingly supported a carriage 15. The said carriage may be provided with a pair of rollers 16.

The carriage 15 is provided with a central opening 17 in which there is slidingly mounted a block 18 having a serrated top surface 19, the carriage 15 being similarly serrated at its top surface 20. The block 18 may be vertically adjusted within the carriage 15 by means of a screw 21 which passes through a threaded opening 22 centrally located in the block 18. The screw 21 is provided with a knurled head 23 by which it may be turned to raise or lower the block 18.

The slideway 14 may be tilted about its pivot and raised by means of a combined guide and wedge 25 by moving the said wedge forwardly along the base. The said member comprises a tapered or wedge shaped base 26 and side walls 27 between which the slideway 14 is guided and maintained in proper alignment with the base when in raised position.

Slidably or otherwise supported at the front of the base 10 there is a bar 28 upon which there is slidably supported a ramp, runway or tapered block 29 which is higher at the rear than at the front thereof. To remove a tire or wheel from a vehicle, the said vehicle is driven forwardly with one of its wheels 30 riding over the ramp 29. This action raises the vehicle sufficiently high enough so that a portion of the vehicle 31 passes over the block 18. After the wheel passes the highest point of the ramp 29, the said portion 31 will rest upon the serrated surface 19 of the block. Further movement of the vehicle will slide the carriage 15 and block 18 in the direction of the arrow 32 until the said carriage abuts a stop 33 secured to the rear of the slideway 14 by means of a screw 34. The said stop 33 and combined wedge and guide 25 are joined together by a chain 35, the said chain being long enough to permit the wedge 25 to be moved to the forward end of the base. With the carriage 15 against the stop 33, the tire may be removed and replaced and the vehicle backed off the device.

It will be understood that before driving the vehicle over the ramp, the block 18 is first adjusted to a height suitable for the particular vehicle, the said adjustment being made by either

the screw 21 or the wedge 25 or both. In some cases, no adjustment may be necessary and the vehicle may rest directly on the serrated surface of the carriage. The serrations on both the carriage and block are so arranged that the supported vehicle portion 31 cannot slip off.

From the foregoing, it will be seen that I have provided a simple and efficient jack which may be adjusted to any desired height without the operator having to raise the weight of the car while doing so as all the adjustments may be made prior to the raising of the car, the car being raised when it is driven over the ramp.

It will further be understood that the block 18 may in some instances be omitted and the carriage may act as the vehicle supporting member.

Having described my invention, what I claim as new and desire to secure by Letters Patent is:

1. A device of the nature described, comprising a base, a slideway pivotally mounted at one end thereof to the corresponding end of the base, a vehicle supporting member slidably mounted in the slideway, a stop in the slideway for limiting the sliding movement of the said member, and a ramp operatively associated with the base for the purpose specified.

2. A device of the nature described, comprising a base, a slideway pivotally mounted at one end thereof to the corresponding end of the base, a vehicle supporting member slidably mounted in

the slideway, a stop in the slideway for limiting the sliding movement of the said member, a wedge slideable on the base and in operative engagement with the slideway, and a ramp operatively associated with the base for the purpose specified.

3. A device of the nature described, comprising a base, a slideway pivotally mounted at one end thereof to the corresponding end of the base, a carriage slidably mounted in the slideway, a vertically adjustable block in the carriage, a stop in the slideway for limiting the sliding movement of the carriage, and a ramp operatively associated with the base for the purpose specified.

4. A device of the nature described, comprising a base, a slideway pivotally mounted at one end thereof to the corresponding end of the base, a carriage slidably mounted in the slideway, a vertically adjustable block in the carriage, a stop in the slideway for limiting the sliding movement of the carriage, a wedge slideable on the base and in operative engagement with the slideway, and a ramp operatively associated with the base for the purpose specified.

5. A device of the nature described, comprising a base, a slideway pivotally mounted at one end thereof to the corresponding end of the base, a vehicle supporting member slidably mounted in the slideway, and a ramp operatively associated with the base for the purpose specified.

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