Feb. 11, 1930. J. A. BURKART 1,746,415

COLLAPSIBLE WHEEL CHUCK

Filed Oct. 5, 1928

Fig. 1.

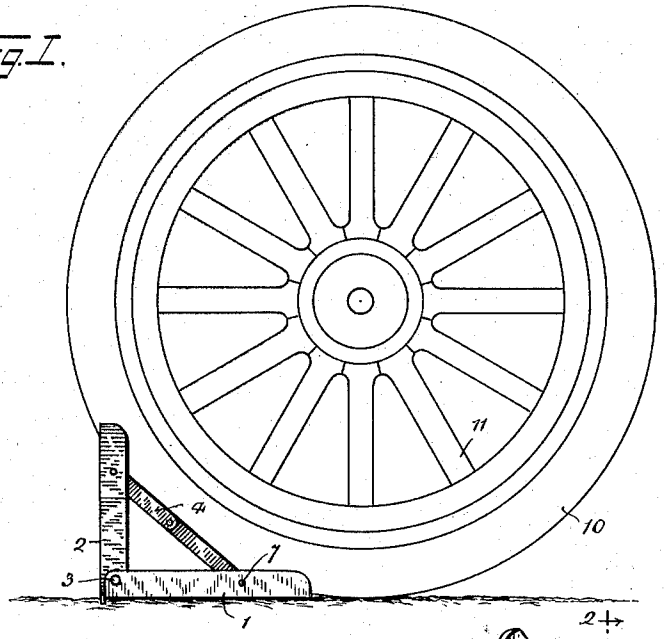


Fig. 2.

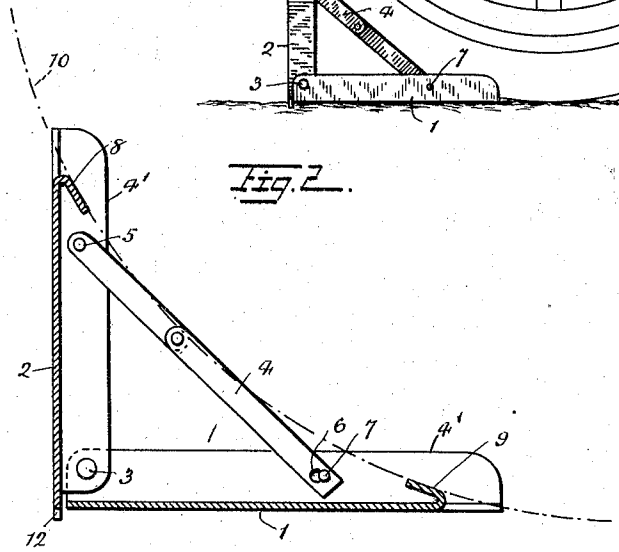


Fig. 3.

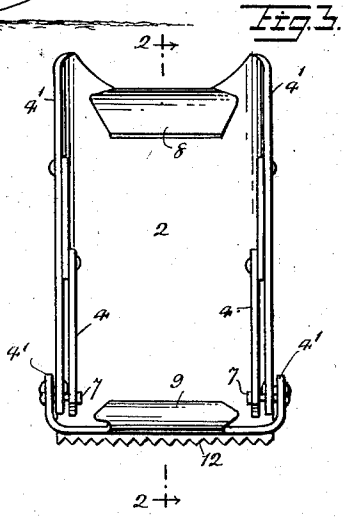


Fig. 4.

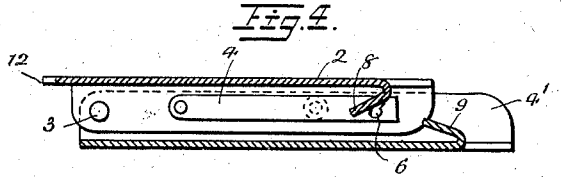
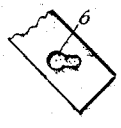


Fig. 5.



WITNESSES

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COLLAPSIBLE WHEEL CHUCK

Application filed October 5, 1928. Serial No. 310,557.

This invention relates to a collapsible wheel chuck, an object of the invention being to provide a chuck, sometimes known as a block, which is collapsible and can be carried in a relatively small space in an automobile, and can be opened or placed in operative position so as to be disposed under and at the rear of a wheel to prevent any possibility of movement of the wheel and automobile.

A device of this character is especially adapted for use when it is necessary to change a tire on a hill or incline, and I may employ one or more of the devices in operative engagement with any of the wheels and be assured that when the device is in use there will be no possibility of accidental movement of the car.

A further object is to provide a device of this character which can be manufactured and sold at a reasonably low price, which can be conveniently handled and which will be strong and durable in use.

With these and other objects in view, the invention consists in certain novel features of construction and combinations and arrangements of parts, which will be more fully hereinafter described and pointed out in the claims.

In the accompanying drawings—

Figure 1 is a view in side elevation showing my improved chuck or block in operative position relative to a wheel;

Figure 2 is a view in vertical longitudinal section through my improved device, the view being on a somewhat larger scale than Figure 1 and taken in section on the line 2—2 of Figure 3;

Figure 3 is a view in elevation of my improved chuck looking from the front to the rear of the chuck;

Figure 4 is a view in longitudinal section showing the chuck in folded position;

Figure 5 is a fragmentary view of one end of the link braces.

I shall describe my improved chuck as in operative position, as indicated in Figures 1, 2 and 3 of the drawings. The chuck comprises a horizontal or base member 1 and an upright member 2 located at the rear end of the member 1. These members 1 and 2 are of general channel shape in cross section and they are pivotally connected at one end by rivets 3 extending through the flanges 4′ of the members 1 and 2.

Link braces 4 connect the members 1 and 2 and secure them at the proper angle, and these link braces each comprises two links pivotally connected and each brace is pivotally connected at one end to the upright member 2 by a rivet 5 secured to the flange 4′ of said upright member 2. The other end of each link brace is formed with a keyhole-shaped slot 6 adapted to engage over a headed stud 7 on the flange 4′ of member 1, and this keyhole slot is of such size and shape as to permit the brace to be disengaged from the stud and secured in operative position thereon.

The upper end of the upright member 2 and the forward end of the horizontal or base member 1 are cut or slit providing tongues 8 and 9, respectively, which are bent and curved transversely so as to provide bearing surfaces against which the tire 10 on a wheel 11 may engage.

Furthermore, by thus forming the tongues the extremities of the members 1 and 2 are recessed or bifurcated in form so as to accommodate the tire therein and prevent any lateral displacement of the chuck or wheel.

The upright member 2 at its pivoted end is extended or formed with a projection 12 having its free edge toothed, serrated or otherwise roughened so as to project into the ground and engage the surface of a roadway and prevent any possible skidding.

It is of course to be understood that when the parts are in normal position this projection 12 extends in a plane below the bottom of the brace or horizontal member 1. When the device is not desired for use the link braces 4 may be disconnected from the studs 7 and the members 1 and 2 folded against each other, as shown in Figure 4, so that the chuck will occupy but small space in storage.

While I have illustrated what I believe to be a preferred embodiment of my invention it is obvious that various changes and alterations might be made in the general form of the parts described without departing from my invention and hence I do not limit myself

to the precise details set forth but consider myself at liberty to make such changes and alterations as fairly fall within the spirit and scope of the appended claims.

I claim:

1. A device of the character described, comprising two members pivotally connected at one end and normally positioned at a substantially right angle to each other, braces connecting said members, and the extremities of said members having recesses therein to accommodate the tire.

2. A collapsible wheel chuck, comprising a pair of channel-shaped members pivotally connected at one end and having recesses in their other ends, movable means connecting said members and holding them substantially at right angles to each other, one of said members constituting an upright member, and a projection on the lower end of said upright projecting below the bottom of the other member and adapted to positively engage the ground or surface on which the chuck is located.

3. A collapsible wheel chuck, comprising a pair of channel-shaped members pivotally connected at one end and having recesses in their other end, movable means connecting said members and holding them substantially at right angles to each other, one of said members constituting an upright member and a projection on the lower end of said upright projecting below the bottom of the other member and adapted to positively engage the ground or surface on which the chuck is located, said members having recesses in their ends and tongues between the recessed tire engaging surfaces.

4. A device of the character described, comprising two members pivotally connected to each other and normally located at right angles to each other, and movable braces connecting the members and permitting said members to fold one against the other and enclose the braces.

JOSEPH A. BURKART.