May 4, 1943. H. H. SCHRAMM 2,318,108

JACK CARRIAGE

Filed Sept. 26, 1941

Fig. 1.

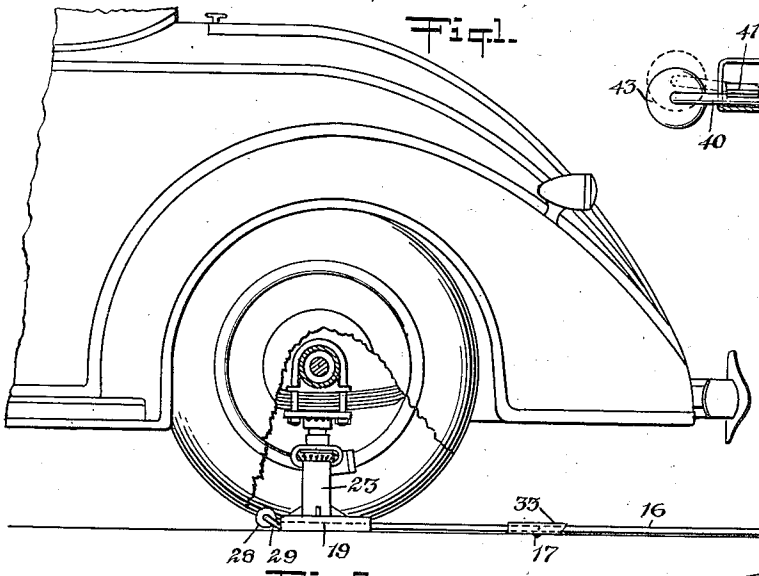


Fig. 10.

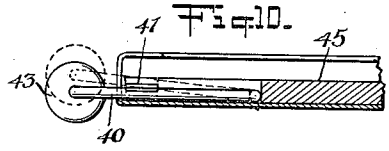


Fig. 2.

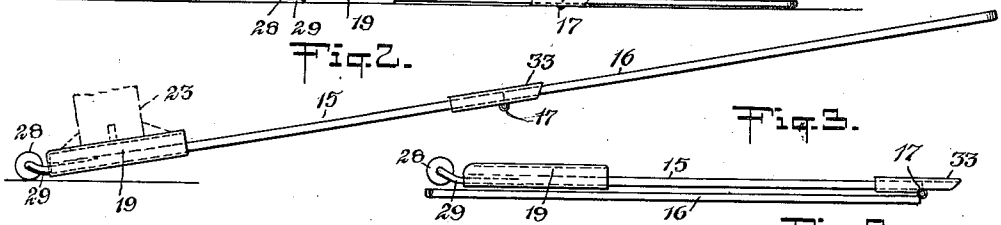


Fig. 3.

Fig. 6.

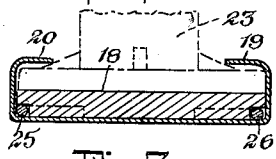


Fig. 4.

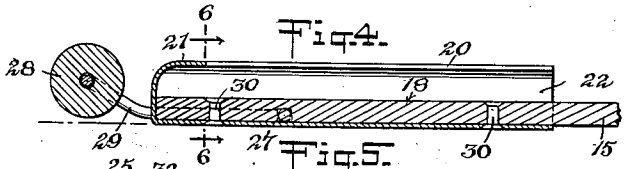


Fig. 5.

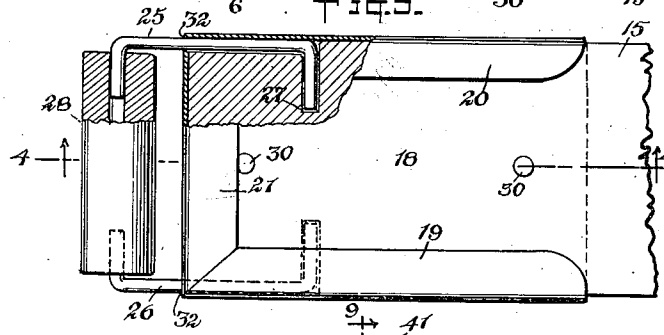


Fig. 7.

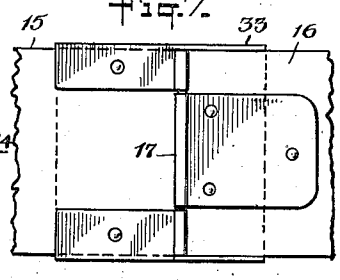


Fig. 8.

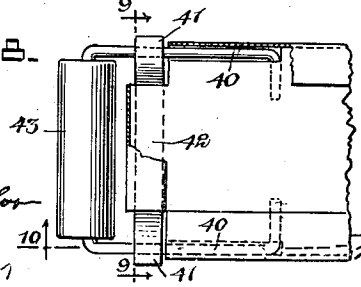
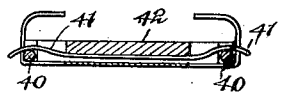


Fig. 9.



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JACK CARRIAGE

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Application September 26, 1941, Serial No. 412,387

5 Claims. (Cl. 280—61)

This invention relates to jack carriages, and more particularly to that type of device which enables a motorist or mechanic to place the jack in the desired position under an automobile. In modern cars with extended fenders and underslung construction it is most difficult to properly place the jack at the desired position, such as under the spring shackle, where the jack will operate most efficiently, and the industry has been adopting bumper jacks and similar contrivances to overcome this difficulty. These are unsatisfactory, however, as they place an undue strain on numerous parts of the car.

An object of this invention is to provide a jack carriage, simple in construction, by the use of which the jack may be placed in any desired position under the car.

A further object is to provide a device which may be cheaply and simply constructed and which may be readily carried in a trunk or tool chest.

A further object is to provide a carriage which may be readily put into place but which will be so constructed as not to be subject to undue strains.

With these and other objects in view, reference is had to the accompanying drawing, in which—

Fig. 1 is a side elevation showing the jack carriage in use;

Fig. 2 is a side elevation showing the manner in which the jack carriage is used;

Fig. 3 is a side elevation showing the carriage folded;

Fig. 4 is a cross-sectional view in detail showing the construction taken on the line 4—4 of Fig. 5;

Fig. 5 is a detail view of the jack-positioning means;

Fig. 6 is a cross-sectional view taken on the line 6—6 of Fig. 4;

Fig. 7 is a view in detail showing the hinge;

Fig. 8 is a plan view of a modified form of my invention;

Fig. 9 is a cross-sectional view of the modified form taken on the line 9—9 of Fig. 8;

Fig. 10 is a cross-sectional view taken on the line 10—10 of Fig. 8.

I provide an elongated member 15 having a hinged handle 16 connected to the member 15 by the hinge 17. The members 15 and 16 may be made of wood or any other material suitable for the purpose. At the opposite end of the member 15 is a jack platform 18 having side members 19 and 20 and an end member 21 overlapping the platform to form grooves 22 into which the bottom of the jack 23 may be slid.

U-shaped members 25 and 26 are fulcrumed at one end in the sockets 27 and at their other end engage the roller 28. At the outer end of the members 25 and 26 are bent upwardly at 29 so that when the platform 18 is flat on the ground the roller 28 will be slightly removed from the ground. This is best shown in Fig. 4.

The platform 18 may be constructed with a piece of sheet metal folded about the end of the member 15 and riveted at 30 to the member 15. The metal may be bent upon itself to form side members 19 and 20 and the end member 21. An opening is left at 32 to allow the members 25 and 26 to pass therethrough.

The hinge 17 is of the type having a back extension 33 so that the hinge is supported in one direction and may only operate in the other direction as is shown in Fig. 3. The carriage may be folded for carrying purposes and then, when it is desired to place the jack, the jack is inserted on the platform 18 and, with the handle 16 at an angle, the jack and carriage are rolled on the roller 28 into position. The handle is then lowered and the device rests on the bottom of the platform 18 with the roller 28 out of engagement with the ground. When the jack is to be removed, the handle 16 is brought up until the roller again comes into engagement and the entire device may be wheeled out of position.

In the modified form shown in Figs. 8, 9 and 10, the members 40 are straight and the spring member 41 passes over the top of the members 40 and under the edge 42 of the carriage. When the carriage is put into place, the roller 43 is still in contact with the ground or floor, but as pressure is brought to bear upon the roller it moves upwardly on the members 40 against the spring 42 so that the bottom of the platform 45 may rest upon the ground.

While I have shown my carriage made out of wood or similar material, it will be appreciated that it may be made out of metal or any suitable material, or the entire frame may be made out of a single piece of wire bent upon itself to form a handle and pulley-carrying members and the platform may be simply added thereto.

I claim:

1. A jack carriage comprising a handle member foldable upon itself, a platform for positioning a jack at one end of said member, roller means on said member adjacent said platform, said roller means being so positioned as to be completely out of engagement with the surface

of the ground when the platform is placed flat on the ground but adapted to engage the ground when the handle member is lifted.

2. A jack carriage constituting a handle member, means for positioning a jack on one end thereof, roller means for sliding said carriage at one end of said handle member, said roller means being positioned on extending members and said extending members being bent upwardly so as to be out of engagement with the ground when said jack carriage is placed flat on the ground.

3. A jack carriage comprising an elongated member adapted to be used as a handle, means adjacent one end of said member to receive and position a jack, and a roller adjacent said end, said roller being mounted slightly above the plane of said elongated member whereby said roller is out of engagement with the ground when said member is placed flat on the ground and whereby said member moves into engagement with the ground when said handle is raised.

4. A jack carriage comprising a handle member, a platform for positioning a jack at one end of said member, cut-out portions in said platform, roller means on said member adjacent said platform, axle means for said roller means comprising substantially U-shaped members adapted to engage said rollers and to engage said cut-out portions of said platform, additional means for positioning said jack and for positioning said axle means, said means comprising a plate bent upon itself to surround said platform to position said axle means in said apertures and to form lips to engage the bottom of said jack.

5. A jack carriage including a handle member, a platform adapted to receive a jack at one end thereof, roller means on said member adjacent said platform, cut-out portions in said platform, members bent upon themselves to engage said roller means at one end thereof and to engage said apertures in said platform, said members being bent upwardly to position said roller in a plane above said platform, and additional means for positioning said jack on said platform comprising a member engaging the sides of said platform to hold said roller engaging members in said apertures and being bent over said platform to engage the base of a jack.

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