Feb. 8, 1927. 1,617,017

F. R. DUDLEY

PUMP ATTACHMENT

Filed April 16, 1924

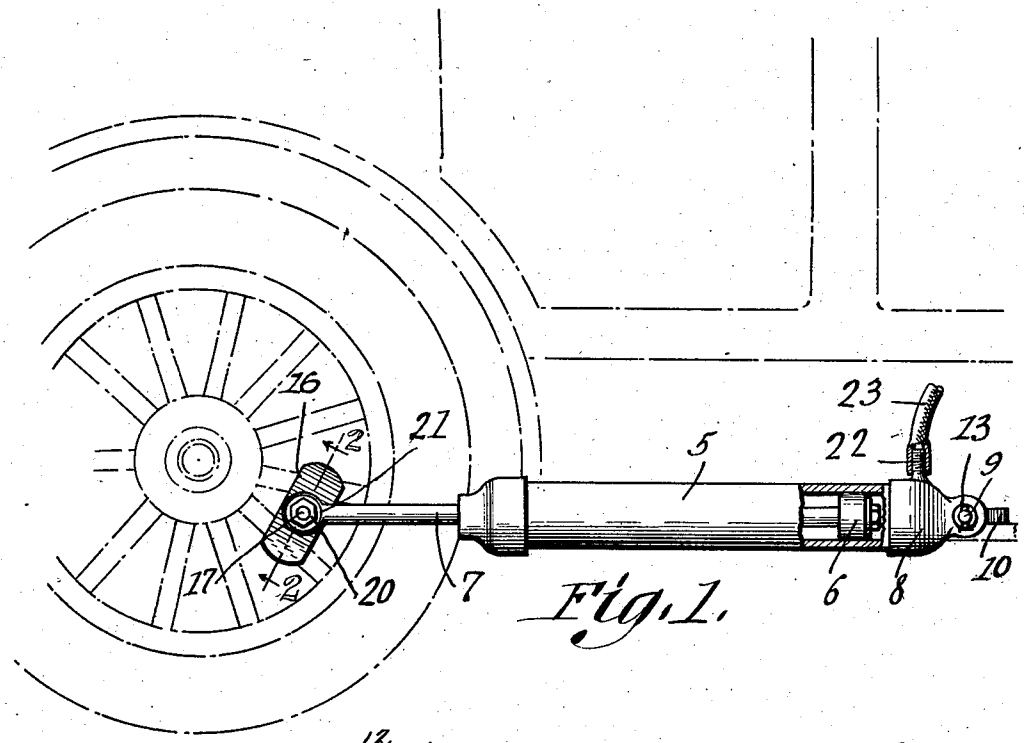


Fig. 1.

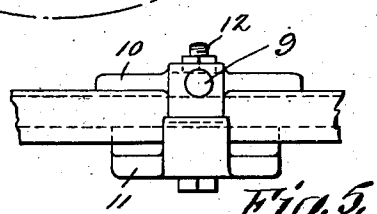


Fig. 5.

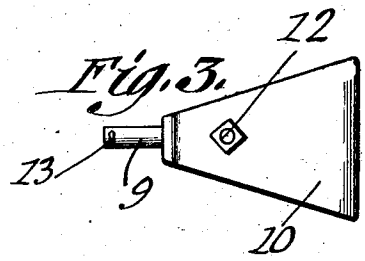


Fig. 3.

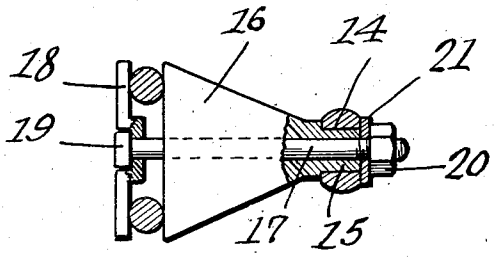


Fig. 2.

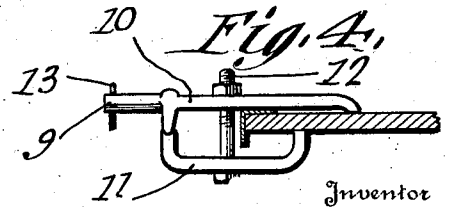


Fig. 4.

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Patented Feb. 8, 1927. 1,617,017

UNITED STATES PATENT OFFICE.

FRANK R. DUDLEY, OF FITCHBURG, MASSACHUSETTS.

PUMP ATTACHMENT.

Application filed April 16, 1924. Serial No. 706,949.

This invention relates to pumps, and more particularly pumps especially designed for inflating pneumatic tires.

The primary object of the invention is to provide novel means whereby a pump may be secured to the running board of a motor vehicle and the piston rod thereof connected with one of the driving wheels of the vehicle so that the power of the motor may be utilized for operating the pump.

Another object of the invention is to provide novel means for connecting the piston rod of the pump to the power wheel of the motor vehicle to cause the rotary movement of the wheel to be converted into reciprocating motion.

With the foregoing and other objects in view which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of the invention herein disclosed, may be made within the scope of what is claimed, without departing from the spirit of the invention.

Referring to the drawing:

Figure 1 is an elevational view disclosing a pump constructed in accordance with the invention as supported on the running board of a motor vehicle and connected with one of the power wheels thereof.

Figure 2 is a sectional view taken on line 2—2 of Figure 1.

Figure 3 is a plan view of the clamping member that clamps the pump to the running board.

Figure 4 is a sectional view through the running board disclosing the clamp in elevation.

Figure 5 is an elevational view showing the clamp as secured to a running board.

Referring to the drawing in detail, the reference character 5 designates the pump cylinder in which the piston 6 operates, the piston being carried on the inner end of the piston rod 7 so that movement of the piston rod produces a relative movement of the piston 6, to accomplish the purpose of the invention.

A head 8 is positioned on one end of the pump cylinder 5 and is provided with an opening to accommodate the shaft 9 formed integral with the clamping member 10 which clamping member cooperates with the clamping member 11 to clamp the shaft to the running board.

A bolt 12 extends through the clamping members and secures the clamping members together in their operative positions. In order that the head may be held to the shaft 9, a cotter pin 13 is provided, and extends through an opening in the shaft 9. From the foregoing it will be obvious that due to this construction, the pump cylinder may swing on the shaft 9 to allow the piston rod to rotate with the power wheel.

The piston rod 7 is formed with an opening 14 at one end thereof, which accommodates the shaft 15 formed at one end of the clamping member 16, which clamping member is mounted on the bolt 17. Cooperating with the clamping member 16 is a member 18 which is of a length to engage adjacent spokes of a wheel and as shown, the member 18 is provided with a recessed portion to accommodate the head 19 of the bolt, to prevent rotary movement of the bolt when the nut 20 at the outer ends of the bolt is being positioned.

The nut 20 also holds the washer 21 into engagement with the piston rod to hold the piston rod in position on its shaft. When it is desired to operate the pump, it will be obvious that the pump may be readily and easily positioned in a manner as shown and described, whereupon the rear wheels of the vehicle may be raised to a position in spaced relation with the ground surface on which the vehicle is standing, whereupon power may be applied to the rear wheels to reciprocate the piston within its cylinder and accomplish the pumping operation.

Extending from the head 8 is a pipe 22 over which a flexible tube 23 may be positioned, which tube is provided with the usual valve nozzle not shown, whereby the tube may be held into engagement with the valve of a tire to direct air thereto.

I claim:—

In a device of the character described, a clamping member comprising an upper section and a lower section, said upper section having a depending lug, said lower section having an upstanding end formed with a

recess to receive the lug, said sections having inwardly extended end portions adapted to grip the running board of a motor vehicle at points in spaced relation with each other, a bolt passing through the sections, to hold the sections into clamping relation with the running board, and to hold the lug in the recess, a shaft forming a part of the upper section, and said shaft adapted to pivotally support a pump.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature.

FRANK R. DUDLEY.