R. ABELL.

FRAME FOR POWER DRIVEN PUMPS.

APPLICATION FILED MAY 31, 1913.

1,186,157. Patented June 6, 1916.

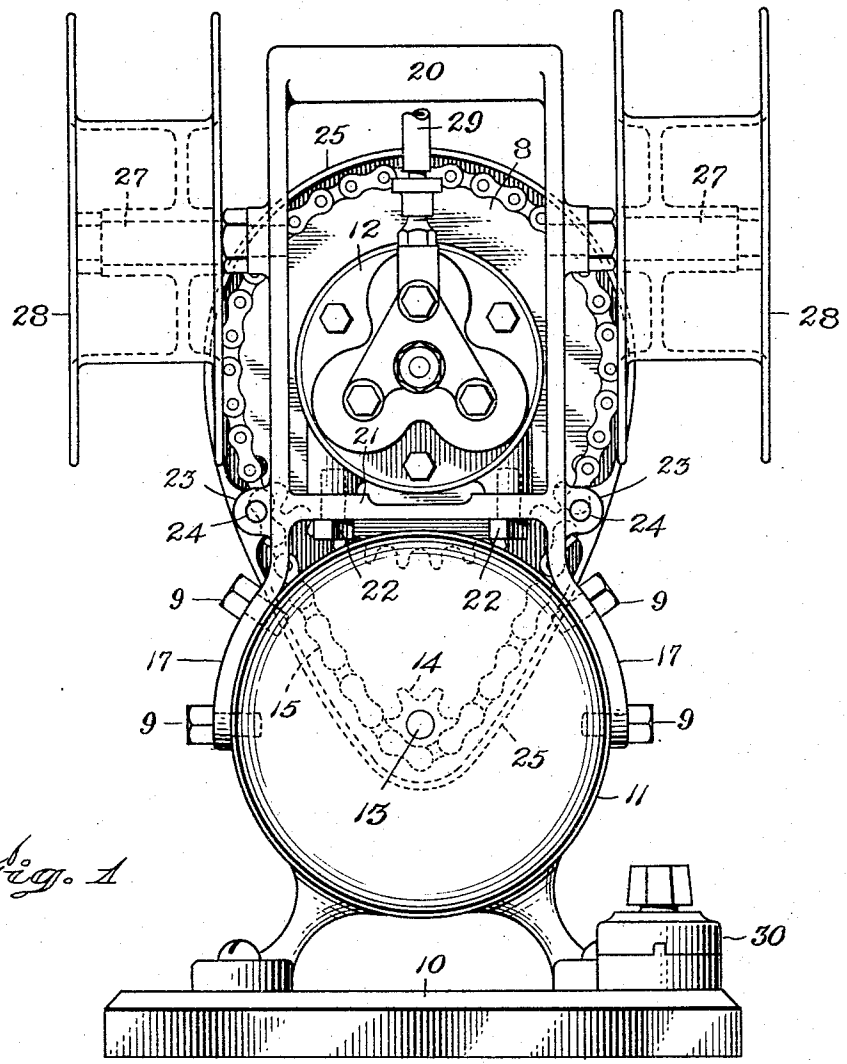


Fig. 1

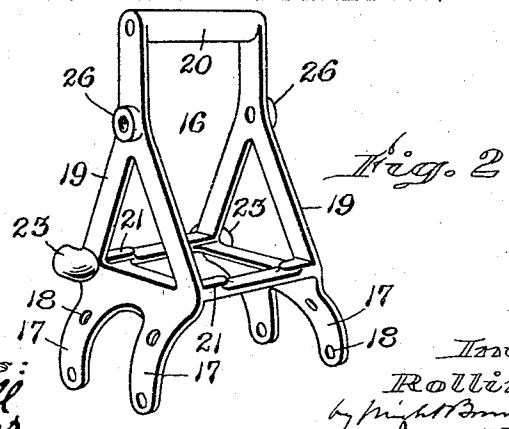


Fig. 2

Witnesses:
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UNITED STATES PATENT OFFICE.

ROLLIN ABELL, OF MILTON, MASSACHUSETTS.

FRAME FOR POWER-DRIVEN PUMPS.

1,186,157. Specification of Letters Patent. Patented June 6, 1916.

Application filed May 31, 1913. Serial No. 771,010.

To all whom it may concern:

Be it known that I, ROLLIN ABELL, a citizen of the United States, and resident of Milton, in the county of Norfolk and State of Massachusetts, have invented certain new and useful Improvements in Frames for Power-Driven Pumps, of which the following is a specification.

This invention relates to power-driven pumps, and especially to an air pump combined with a motor, designed for inflating pneumatic tires.

The invention consists in a frame whereby the pump is supported in coöperative relation to the motor and whereby the pump and motor may be carried from place to place as a unit. The frame is designed to be secured upon the casing of a motor and to support the pump and to afford means whereby a person may readily carry the two engines with one hand. The frame comprises other features which are hereinafter explained and which are illustrated by the accompanying drawing.

On the drawing: Figure 1 represents an elevation including a base, a motor mounted on the base, a carrying frame mounted upon the motor, a pump mounted in the carrying frame, and spools or reels attached to the frame for holding such elements as flexible electric conductors for the motor and a flexible rubber tube for the pump. Fig. 2 represents a perspective view of the frame alone.

In Fig. 1 a base is indicated at 10, and the casing of an electric motor is represented conventionally at 11, the motor casing being fastened to the base. An air compressor of well-known structure is indicated as a whole at 12. The compressor and motor *per se* do not constitute any part of the invention and may be of any desired size and style. The motor shaft, indicated at 13, is provided with a sprocket 14 which drives a chain 15, the chain passing over a sprocket 8 affixed to the main power shaft of the pump.

The invention is embodied in the frame, which is illustrated separately by Fig. 2. This frame comprises suitable means, such as legs 17, whereby it may be mounted upon and affixed to a motor casing. These legs as shown are shaped to fit a cylindric motor casing such as that in Fig. 1, and are provided with holes 18 for the reception of bolts 9 which are threaded in the motor casing. The frame has oppositely disposed upright side portions 19 whose upper ends are connected by a transverse portion 20 which serves as a handle whereby the entire plant may be carried. The sides 19 are connected by a base portion 21 upon which the compressor may be secured by bolts 22, the pump standing between the side portions 19 and between the base 21 and handle 20. The frame is further provided with bosses 23 for the reception of bolts 24 by which a chain guard 25 may be secured directly to the carrying frame. The side portions 19 are provided with bosses 26 for the reception of studs 27 whereby spools or reels 28 may be attached. One of these spools is provided for supporting the flexible electric conductors (not shown) which furnish power for the motor, and the other is provided for supporting the usual flexible rubber tube whereby compressed air is conducted from the pump 12 to the element which is to be charged. One end of such rubber tube is shown at 29, the same being connected to the pump. An electric switch, indicated at 30, is mounted upon the base 10.

The entire apparatus of proportions adapted for inflating pneumatic tires weighs about forty pounds. The disposition of the elements and the arrangement of the handle 20 are such that the complete plant may be conveniently carried with one hand by means of the handle 20. If it should be necessary to detach the frame 16 from the motor, for repairing or for any other purpose, the frame with the guard 25, pump and spools still intact may be suspended by the handle 20; or, if the guard is detached, the frame with the pump and spools may stand upright on the legs 17, these legs being designed to serve for this purpose. When the handle 20 is used to carry the assembled engines, the motor and compressor are not in any way dependent on each other for their support, each being supported directly by the frame.

I claim:

1. In combination, two engines one of which is an air compressor and the other a motor therefor, one of said engines having a base, a frame for carrying said engines, said frame being affixed upon said one of said engines so as to be supported thereby, said frame having laterally separated portions extending upwardly and having a tranverse handle portion connect-

ing the upper ends of said upwardly extending portions, the other one of said engines being arranged between said upwardly extending portions and affixed to said frame, and means arranged to transmit motion from said motor to drive said compressor.

2. In combination, an air compressor, and a frame having laterally separated upstanding portions, said frame having a transverse handle portion connecting the upper ends of said upstanding portions, and having a lower portion formed to stand upon a support, said compressor being arranged between said upstanding portions and affixed to said frame.

In testimony whereof I have affixed my signature, in presence of two witnesses.

ROLLIN ABELL.

Witnesses:
M. J. REGAN,
SAML. C. LORD.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents. Washington, D. C."