

1,314,202.

R. S. MOORE.
AERIAL CONVEYER.
APPLICATION FILED JAN. 30, 1919.

Patented Aug. 26, 1919.

Fig. 1.

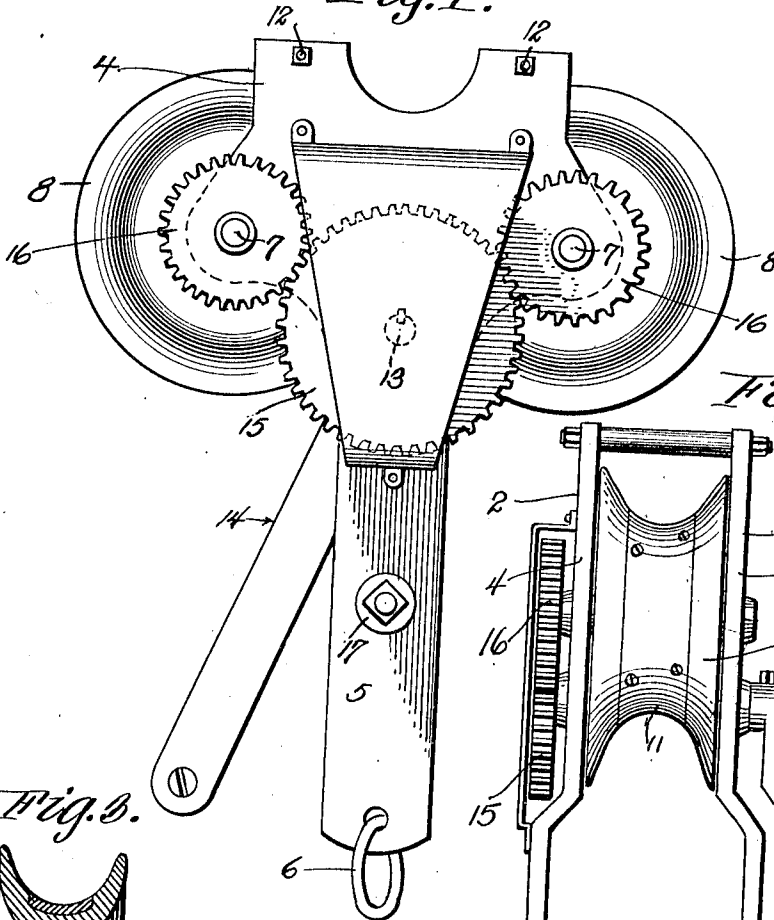


Fig. 2.

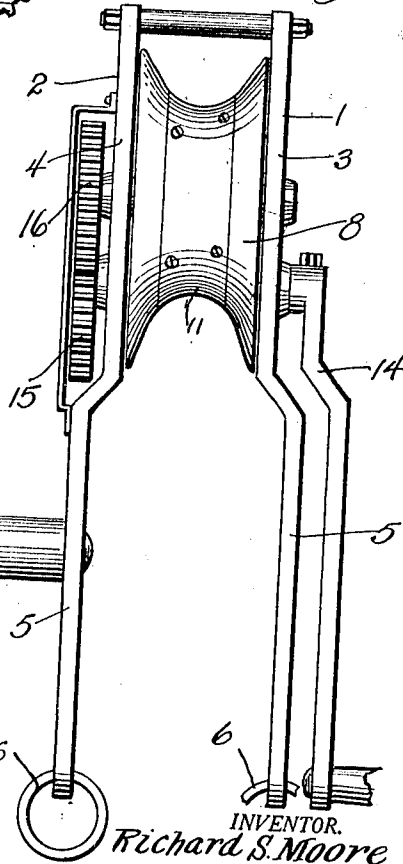
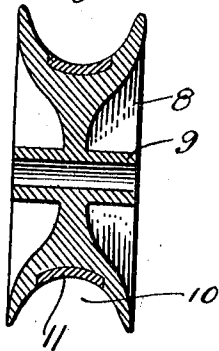


Fig. 3.



WITNESS:

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RICHARD S. MOORE, OF ROCKDALE, TEXAS.

AERIAL CONVEYER.

1,314,202.

Specification of Letters Patent.

Patented Aug. 26, 1919.

Application filed January 30, 1919. Serial No. 273,996.

To all whom it may concern:

Be it known that I, RICHARD S. MOORE, a citizen of the United States, residing at Rockdale, in the county of Milam and State of Texas, have invented certain new and useful Improvements in Aerial Conveyers, of which the following is a specification.

This invention relates to aerial conveyers and more particularly to an aerial suspension car for aiding linemen in traveling along a suspended cable.

The primary object of the invention is to provide a wheeled car or carriage especially constructed to be mounted upon a cable stretched from the usual supporting poles and adapted to support the weight of the lineman so that he may travel from one pole to another.

Another object of the invention is to provide a proper gearing arrangement adapted to be operated by the operator of the device so that he may regulate his speed of travel along the cable.

The invention also contemplates the provision of a stretcher which will always be maintained in the proper position so that no danger will be encountered by the lineman and so that he can maintain the car rigidly in position while it is in motion to prevent displacement or accidental removal of the device from the cable.

A further object of the invention is to provide a device of this character which consists of comparatively few parts and is simple in construction but durable and well adapted to withstand the rough usage to which devices of this character are ordinarily subjected.

For a full description of the invention and the advantages and merits thereof, reference is to be had to the following description and accompanying drawings, in which:—

Figure 1 is a side elevation of the device constructed in accordance with my invention.

Fig. 2 is an end elevation,

Fig. 3 is a section through one of the supporting wheels.

Referring to the drawings, wherein is illustrated the preferred form of my invention, in which like characters of reference indicate like or corresponding parts throughout the several views, the frame comprises the side frame members 1 and 2 which includes the plates 3 and 4 respectively. To each plate is joined a hanger 5 the lower

end of which is provided with a ring 6 to which the lineman may connect the usual safety strap or harness which is worn while the lineman is working.

Journalled in the plates 3 and 4 are the ends of the shafts 7 upon each of which is a supporting wheel 8 shown in detail in Fig. 3 of the drawing. Each wheel comprises the hub 9 through which is extended its shaft 7 and the periphery of the wheel is provided with a relatively deep annular groove 10 which receives the cable over which the device travels. A rubber rim 11 is set into the bottom of the groove as shown in Fig. 3, this acting to prevent slipping of the wheel on the cable and also to provide an insulator whereby no possible electrical connection will be made by the wheel with the cable if the latter should be an electrical conductor.

Fastening members 12 are employed to maintain the plates 3 and 4 in their properly spaced relation. The plates also support a centrally located drive shaft 13 having its ends journalled in the plates and also extended beyond the same so that a crank 14 may be secured to one end of the shaft 13 while the opposite end receives a drive gear 15 and this gear 15 meshes with pinions 16 one of which is mounted on each shaft 7 so that as the crank is actuated the gearing is also actuated to impart rotary movement to the shaft 7 for turning the supporting wheels whereby the device is moved along the cables. The hanger 5 opposite to the crank is provided with a hand grip 17 which the operator may grasp with his free hand in order that the device will be held rigidly while a rotary motion is being given to the gearing through the medium of the crank. The apparatus, therefore may be held rigidly by the operator while it is being propelled and swaying and swinging movement which would be likely to occur, because of the motion given to the crank, may be materially reduced by this arrangement.

In operation, it is merely necessary to attach the safety strap or harness worn by the lineman to the rings 6 whereupon one hand will grip the hand grip 17 while the other engages the handle of the crank so that the crank may be actuated to turn the supporting wheels through the medium of the meshing gears. The operator may thereby control the speed of travel and move rapidly from one pole to another along the cable. The wheels having relatively deep annular

grooves will readily pass over any enlargements or couplings in the cable.

The foregoing description and accompanying drawings have reference to what
5 might be considered to be the approved or preferred form of my invention. I desire it to be understood that I may make such changes in the construction, combination and arrangement of parts, materials, dimensions, et cetera as may prove expedient and
10 fall within the scope of the appended claim.

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

15 An apparatus of the character described comprising spaced plates having grooved wheels mounted therein and journaled in the plates, shafts extending through the wheels and through the plates and equipped

with gears on their ends, a centrally located
20 drive shaft provided with a gear adapted to mesh with the gears on the said wheel shaft, a handle element secured to the drive shaft and adapted to be actuated for rotating the drive shaft, said handle being extended from one side of one of the plates,
25 and a hand grip extending from the opposite side of the opposite plate and adapted to be grasped by the operator to hold the plates from swaying while rotary movement is being imparted to the handle element.
30

I testimony whereof I affix my signature in presence of two witnesses.

RICHARD S. MOORE.

Witnesses:

S. B. FORD,
E. M. CAMP.

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