

No. 825,785.

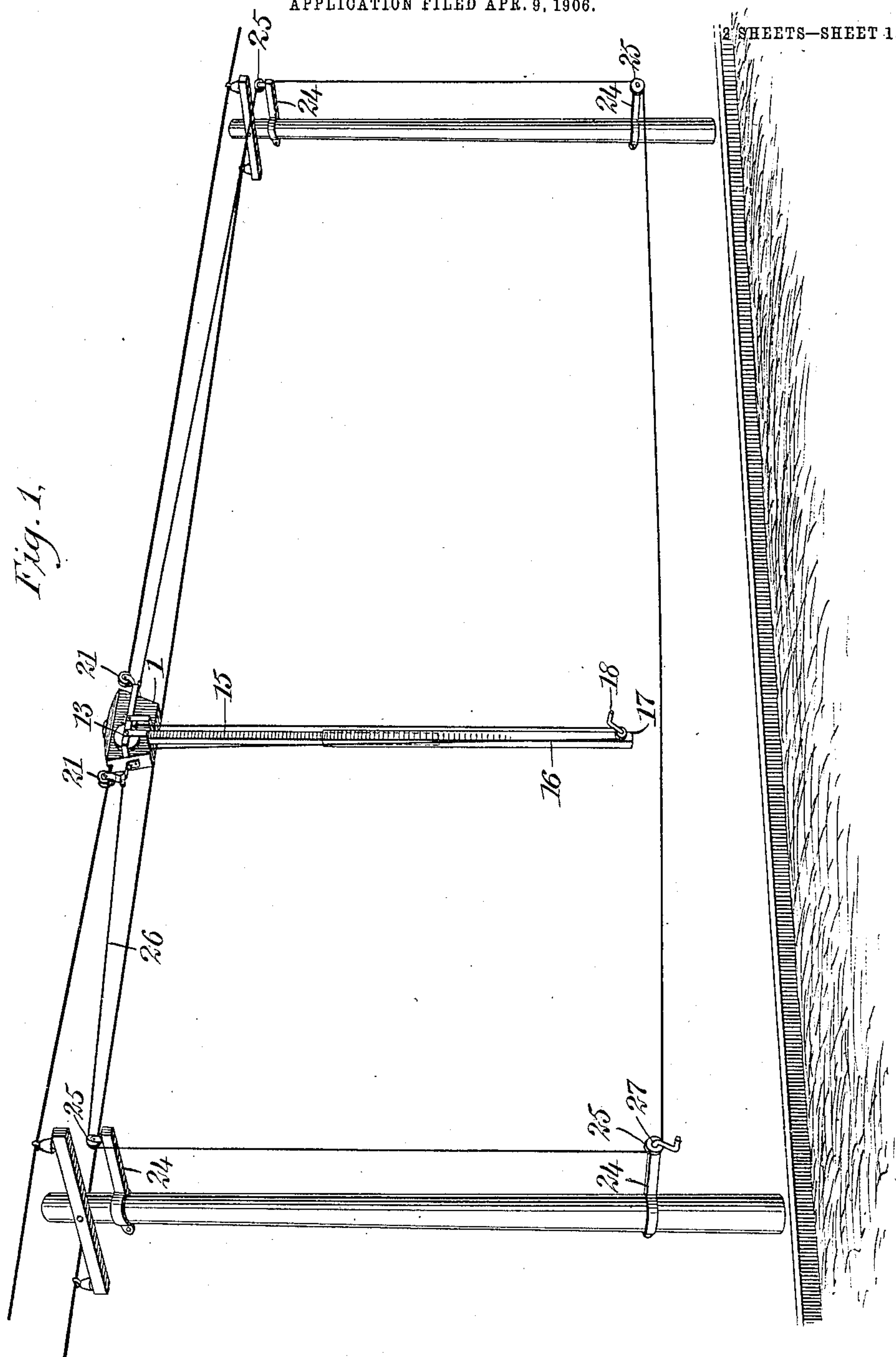
PATENTED JULY 10, 1906.

G. WELMAN.

DEVICE FOR PAINTING OVERHEAD WIRES.

APPLICATION FILED APR. 9, 1906.

2 SHEETS—SHEET 1.



WITNESSES

Edward Thorpe
A. C. Davis

INVENTOR

George Welman

BY *Mum Co*

ATTORNEYS

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2 SHEETS—SHEET 2.

Fig. 2,

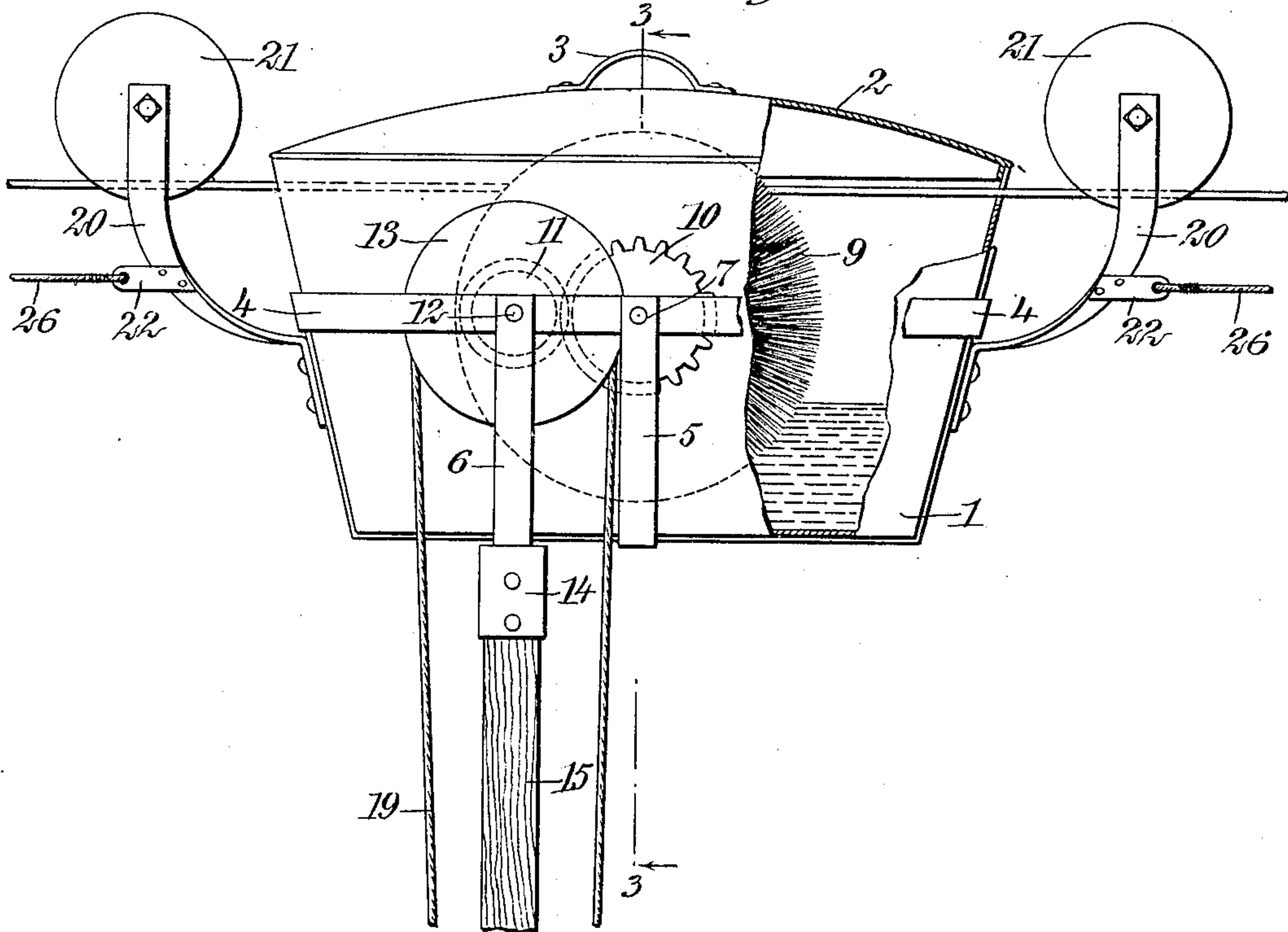
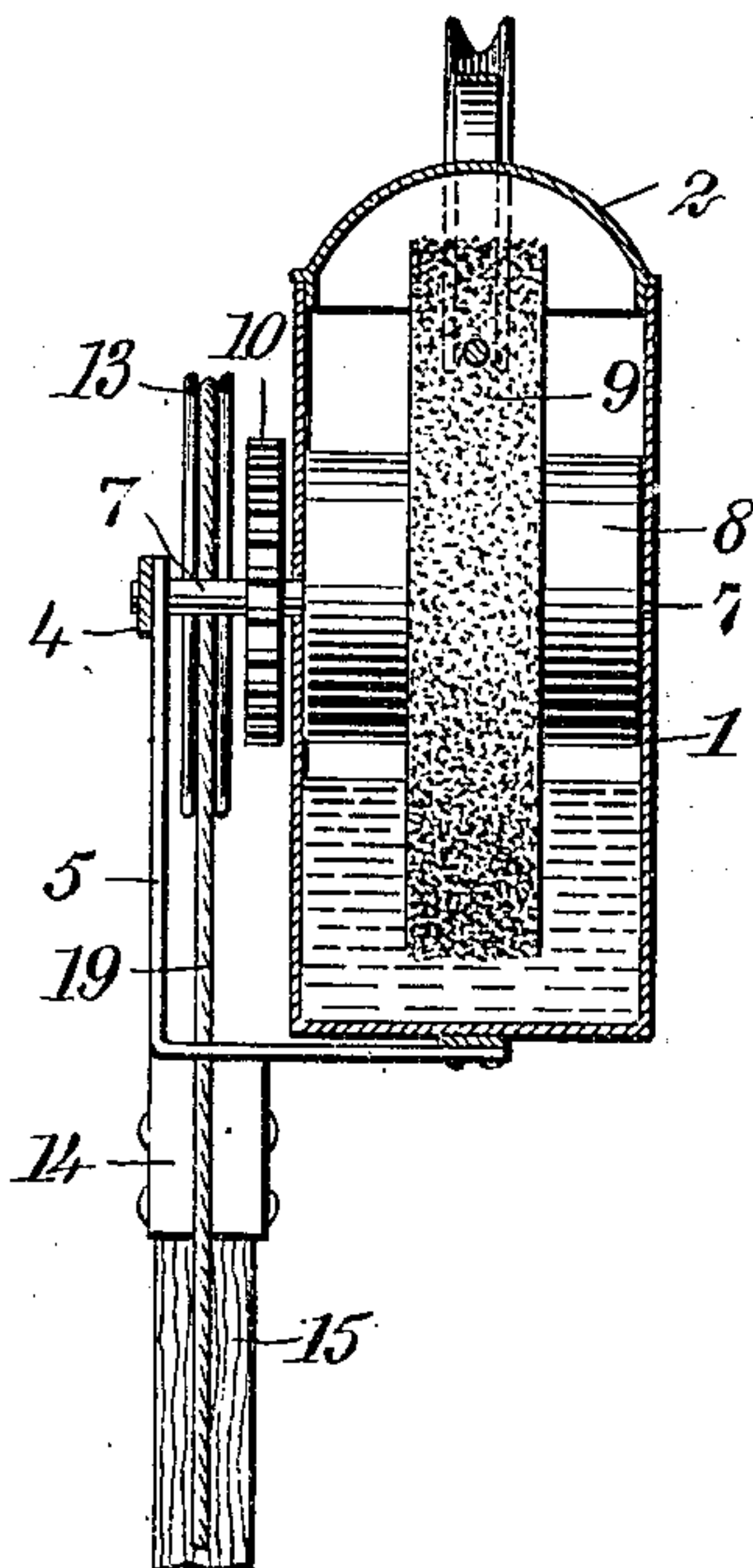


Fig. 3.



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UNITED STATES PATENT OFFICE.

GEORGE WELMAN, OF NEW ORLEANS, LOUISIANA.

DEVICE FOR PAINTING OVERHEAD WIRES.

No. 825,785.

Specification of Letters Patent.

Patented July 10, 1906.

Application filed April 9, 1906. Serial No. 310,689.

To all whom it may concern:

Be it known that I, GEORGE WELMAN, a citizen of the United States, and a resident of New Orleans, in the parish of Orleans and State of Louisiana, have invented a new and Improved Device for Painting Overhead Wires, of which the following is a full, clear, and exact description.

This invention contemplates the production of a device by which overhead wires, especially insulated feed-wires, may be given a coat of paint or other protective coating to prolong their life and preserve them from the elements of the weather.

The invention which I have conceived for performing this important function is designed to be operated from the ground and apply a coating of paint or other preservative to the wires in an effective, rapid, and economical manner. The device is so constructed that the paint can be automatically applied and evenly coated by cheap labor and without danger to life or limb in its application.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a perspective view of one embodiment of my invention as applied between two poles supporting overhead feed-wires. Fig. 2 is a side elevation, partly broken away and in section, of the paint-applying mechanism; and Fig. 3 is a transverse section on the line 3 3 of Fig. 2 looking in the direction of the arrows.

The numeral 1 indicates an oblong can, preferably of galvanized iron, forming a tank to contain the coating liquid for coating the wires and having a lid 2 and a handle 3 shaped somewhat after the fashion of an ordinary washboiler. Secured to each end of the tank is a strap 4, of bar-iron, bent in the form of a U and spaced a slight distance from one side thereof. The strap 4 is further supported from the tank at the center and at one side of the center by angle-irons 5 and 6, of similar material, passing under and riveted to the base of the tank. At the point where the angle-iron 5 is joined to the strap 4 is journaled one end of a spindle 7, passing transversely through the tank and journaled at each side thereof. On the spindle 7 is a wooden core 8, fitting in and of the width of

the tank, at the center of which a brush 9 is carried, said brush being of such diameter as to reach nearly to the bottom of the tank. At the outside of the tank a gear 10 is fixed on the spindle 7 and meshes with a gear 11, fixed to a spindle 12, journaled in the tank at one end and at its opposite end in the intersection of the strap 4 and the angle-iron 6. The spindle 12 has also fixed to it a pulley 13 for the purpose of driving the gears and brush when the latter is rotated. Directly under the pulley 13 is fixed a metal socket 14, in which is secured a bar 15, telescoping at its lower end with an extension 16 to permit the latter's adjustment vertically in either direction to compensate for the different heights of wires desired to be painted. At the lower end of the extension 16 a pulley 17, adapted to be driven by a crank 18, is journaled in alinement with the pulley 13 and drives the same by a rope or belt 19. For suspending the tank to a wire are riveted or otherwise secured twisted supporting-brackets 20, passing upwardly to about the height of the top of the tank and have journaled in them grooved wheels 21. To each supporting-bracket is secured an eye 22, horizontally projecting away from the tank.

The construction so far described constitutes the paint-applying mechanism and the means for supporting it from a wire. In order that it may be made to travel along the wire as the paint-brush is revolved are provided brackets 24, which are to be secured near the bottom and top of two adjacent supporting-poles where paint is to be applied. In these brackets are journaled pulleys 25, and the brackets are so made as to be readily attached and detached from the poles in order that they may be shifted from one pole to another as the painting proceeds. After the paint-tank has been suspended from the wire to be painted by the wheels 21 a rope 26 is connected to one of the eyes 22 and passed about the pulleys 25 and brought to the other eye 22, where it is connected. One of the lower pulleys 25 is provided with a crank 27, by which it may be turned to drive the rope 26.

In the operation of the device the tank is brought close to one of the poles and made to traverse the wire by turning of the crank 27, or it may also be moved by pulling upon the lower run of the rope 26. At the same time the crank 18 is also turned, revolving the brush 9, which carries the paint from the

bottom of the tank and evenly applies it to the wire. By moving the device from pole to pole a continuous length of wire may soon be coated, leaving only a short piece thereof adjacent to each insulator to be coated by hand. In order that the section of the wire passing through the tank may be completely inclosed by the same, slots are made in each end, passing below the flange of the lid 2 when the latter is in place.

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

1. The combination of a paint-tank, brackets fixed at each end thereof, grooved wheels journaled in the ends of the brackets adapted to support the tank on an overhead wire, a spindle journaled in the tank, a wooden core fixed to the spindle, a brush on the core, a gear fixed to the spindle at the outside of the tank, a second gear journaled on a spindle at one side thereof and meshing with the first-mentioned gear, a pulley fixed to the spindle of said second gear, a bar fixed to the tank telescoping with an extension at its lower end, a pulley journaled in the extension, a belt passing over both of said pulleys for driving the brush, a rope fastened at each end of the tank and passing over the pulleys journaled on the brackets attached to the wire-supporting poles, means for driving the rope about the pulleys for moving the tank along the wire, and means for driving the pulley journaled in the extension for revolving the brush.

2. The combination of means to suspend a tank adapted to contain a coating liquid, from an overhead wire, means in the tank for applying the liquid, means for operating the applying means from the ground, and in-

dependent means for moving the tank along the wire.

3. The combination of a tank for containing a coating liquid, adapted to be suspended from an overhead wire, a brush journaled to revolve in the tank, means for operating the brush from the ground, and means for moving the tank along the wire.

4. The combination of a paint-tank, brackets secured at each end thereof, grooved wheels journaled in the brackets adapted to suspend the tank from an overhead wire, a rotatable brush journaled in the tank, means for operating the brush from the ground, and means for moving the tank along the wire.

5. The combination of a paint-tank, means for supporting the same from an overhead wire, a revoluble brush journaled in the tank, and a telescopic bar extending from the tank carrying means whereby the brush may be revolved from the ground.

6. The combination of a paint-tank, means for supporting the same on an overhead wire attached at each end thereof, a revoluble brush journaled in the tank, gearing and a pulley journaled at the outside of the tank, a bar having a telescopic extension projecting downwardly from the tank, means carried by the extension for driving the brush, and means attached at each end of the tank for moving the same along the wire.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

GEORGE WELMAN.

Witnesses:

H. A. BOND,

M. H. GARDNER.